PROTEOMICS

Supporting Information for Proteomics

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From transcriptome to proteome: Differentially expressed proteins identified in synovial tissue of patients suffering from rheumatoid arthritis and osteoarthritis by an initial screen with a panel of 791 antibodies

Supplementary Table 1. Summary of patient data

Patient No.	Age [years]	Sex[a)]	Diagnosis[b)]	Duration of disease [years]	Source of synovial tissue[c)]	Rheumatoid factor	CRP[d)] [mg/l]	Analgetica/ Anti-phlogistica	DMARDs[e)]	NSAIDs[f)]	Cortic osteroids
K41	42	F	RA	8	SE knee	pos.	76.8		–	–	10 mg/d Prednisolon
K48	55	F	RA	10	TJR knee	unknown	62.2	1500 mg/d Metamizol	–	–	–
K55	57	F	RA	10	TJR knee	unknown	17.4	–	–	1000 mg/d Azulfidine	2 mg/d Prednisolon
K59	55	M	RA	10	TJR knee	neg.	49.5	–	–	50 mg/d Indomethacin	–
R46	46	M	RA	8	SE wrist	pos.	15.9	–	15 mg MTX weekly	–	–
R47	58	M	RA	12	SE knee	pos.	24.9	–	–	Brexidol, Indomethacin, Diclophenac	–
R48	23	F	RA	1	SE knee	neg.	5.3	–	–	–	–
R51	49	F	RA	12	SE wrist	pos.	4.7	–	10 mg MTX weekly	Rewodina	–
K40	69	F	OA	10	TJR knee	unknown	12.2	–	–	Voltaren, Rewodina	–
K42	61	F	OA	15	TJR knee	pos.	< 5	–	–	50 mg/d Indomethacin	–
K54	65	M	OA	28	TJR wrist	pos.	< 5	–	–	Rewodina	–
K57	56	M	OA	0.5	SE knee	unknown	< 5	–	–	Diclophenac	–
R41	71	F	OA	10	TJR knee	unknown	7.2	–	–	–	–
R42	81	M	OA	20	TJR knee	unknown	6.1	100 mg/d acetylsalicilyc acid	–	–	–
R43	67	F	OA	1.5	TJR knee	neg.	< 5	–	–	Voltaren	–
R44	65	M	OA	30	TJR knee	neg.	< 5	–	–	–	–

a) F = female M = male
b) RA = rheumatoid arthritis OA = osteoarthritis
c) SE = synovectomy TJR = total joint replacement
d) CRP = C reactive protein levels in blood one day before surgery
e) DMARDs = disease-modifying anti-rheumatic drugs; MTX = methotrexate
f) NSAIDs = non-steroidal anti-inflammatory drugs

Supplementary Table 2. Antibodies used in the BD Powerblot

Catalog No.	Mol. Wt.	Protein ID*
A58920	**220**	**AKAP220**
A59420	125	Amphiphysin
G73320	**78**	**BiP/GRP78**
C26920	61	Calcineurin
C40520	47	Casein Kinase I epsilon
C69520	29	Calretinin
A60520	182	AF6
C38020	100	R-Cadherin
C46920	68	CaM Kinase Kinase
C20020	53	CDC42GAP
P46220	36	p36
C73220	23	CRP1
A41820	180	AP180
C63120	120	CASK

Supplementary Table 2. Continued

Catalog No.	Mol. Wt.	Protein ID*
G72120	84	GOK/Stim1
M32320	68	Munc-18
N35120	47	Neuronal Pentraxin
R35520	25	Rab3
C60320	19	Complexin 2
M98820	219	MUPP1
N68720	145	beta-NAP
P93120	120	PACS-1a
E18220	**97**	**eps8**
C49020	58	beta 1-Calcium Channel
N63520	23	Neurogenin 3
B58720	125	BM28
G60420	100	Gap1m
D62320	87	Dystrobrevin
R68520	**25**	**Rab4**
S63320	19	alpha-Synuclein
T33520	**50/42**	**TIAR**
C57020	**150**	**CD100**
P36520	78	PKC delta
T60820	60	Tpl-2
B46620	26	Bcl-2
D80320	**84/79**	**DLP1**
T57120	50–68	Tau
N31020	155	nNOS/NOS Type I
S35020	25	SNAP-25
N62820	22	Ninjurin
S55720	69/55	ShcC
M58320	**140/88/80**	**Mena**
C81820	115	CLIP-115
M66420	44	JNKK1/MKK4
R56220	**21**	**Rac1**
P60220	10	PIN
M41420	**280**	**MAP2B**
E64320	145	eps15
P43520	95	PSD-95
R43020	**58**	**Rch-1**
G51820	**40**	**G alpha t**
G54220	23	GCAP-1
R69420	173	Rim
G74820	111	GluR delta 2
P14820	90	PKC epsilon
Y35320	62	Yes
V10720	45	Vesl-1L
R28720	25	Rab5
T16020	145/95	trk B
S39520	65	Synaptotagmin
G45020	45	Glutamine Synthetase
S52520	29	Synaptogyrin
A63220	20	ARF-3
G16920	**91/84**	**Stat1 (N-terminus)**
P68620	50/47	p47A
N38120	180	NMDAR2B
S41820	130	EphA4/Sek
R52320	25	Rab27
N73720	120–150	Neuroglycan C
C96420	95	cGB-PDE

Catalog No.	Mol. Wt.	Protein ID*
S56820	74	Synapsin IIa
M54920	49	MAPKp49
C44920	22	CBF beta
P69120	50/47	p47A
S63820	290/280	SSeCKS
D70920	110	DGK theta
M61420	84	ADAM9/MDC9
S71120	**60**	**Smad4/DPC4**
A14020	**36**	**Annexin II**
B67020	96/89	BRAMP2
J55020	180/160	Janusin
F72520	**265**	**Fatty Acid Synthase**
S66220	58	Smad2
T69020	85–95	TGN38
M74420	196	panMunc13
R94920	160	Roaz
C13720	43	Connexin-43
P62620	25	PCMT-II
F64420	**14**	**FKBP12**
K96920	80/85	KIF3A
P71020	129–133	PMCA2
M86920	52	MKK7
I71920	273	IGF2R
C75120	125	Integrin alpha v
P17720	80	PKC beta
E16820	66	EAAT2
P19920	48	PKA RI
M72620	133	mGluR1
S74920	90	SIRP alpha 1
M79820	71	MEKK3
D74620	50	Dynactin
D97520	32	DARPP-32
N79020	180	Neurabin
S96320	100	SHPS-1
N80220	**80**	**Numb**
E85120	66	ENC-1
B40820	**42**	**B2 Bradykinin Receptor**
G55620	**45–60**	**GDNFR-alpha**
R81520	160	ROCK-I
T89420	130	Tomosyn
H69220	92	HNF-1
V76720	135	Integrin alpha 3/VLA-3
C26220	82	gamma-Catenin
O79120	65	Occludin
P53620	49	PKA RI alpha
H28520	**59/56**	**Hck**
G25020	**250**	**LR11/SorLA/gp250**
R44520	75	Rabphilin-3A
M64620	**35 (40)**	**Caspase-7/MCH-3**
R81320	**245/200**	**RAFT1/FRAP**
M75920	120	Mint1
A80820	100	ABR
P75520	58	PP5/PPT
P35220	**36**	**PP1**
E99620	140/200	ESE-1
A22220	110	AFAP

Supplementary Table 2. Continued

Catalog No.	Mol. Wt.	Protein ID*
C61820	50	Carboxypeptidase E
L80120	42	LAT
C40420	25	Casein Kinase II beta
D67820	140	Dlg
P47920	68	PLK-1
N69920	45	Na,K ATPase beta 2
C76920	32	Caspase-3/CPP32
P82120	87/90	PIP5K gamma
C70320	130	N-Cadherin
P18020	**50**	**PTP1B**
A81420	105–130	AKAP-KL
P67920	59	PKB alpha/Akt
P11920	24	p24
F84020	105	Frabin
E86620	80	Endopeptidase 3.4.24.16
H82420	**50**	**Hic-5**
P83620	**36**	**Psme3**
S88220	22	sigma 3A
K87020	125	K Channel alpha
P82820	80	PKC gamma
V83320	45	Vesl-1L
V85620	29	Vti1a
R79220	125/94	RNCAM
M11220	214	myr 6
M10020	190	MRCK alpha
P70520	150	phospholipase C beta 1
P24120	45	PhLP
H89720	85/98	HAP1
P76820	170	PI3-Kinase p170
S80620	115	SRPK2
C14020	48	CPG16
G87120	88/90	GSPT2
B68820	145	Brevican
P90620	48	PP2C delta
N99820	21	NCS-1
C79620	130	M-Cadherin
P81620	105	Per2
F10020	75	FEZ1
A73820	**49**	**Acetylcholine Receptor alpha**
C98320	160	delta-Catenin
G90520	130	GRIP
N98720	**97**	**Nexilin**
C10220	**62**	**N-Copine**
A59120	35	Arginase I
Z98920	160	ZO-2
G12020	130	GABA B R2
C25520	89	CUL-3
S91920	39	STRAP
Cabc20	60	CaM Kinase II b
T93020	116	TAO1
G94420	95	GIT1
A92120	50	AP50
V84120	110/220	VAP-1
N10320	150	tNASP
S81220	95	Sin
P98520	130	Phospholipase C beta 4

Catalog No.	Mol. Wt.	Protein ID*
F91120	95	FXR2
E87220	**50**	**Endothelin 1 Receptor**
C95920	**150**	**Ceruloplasmin**
L16120	110	LDLB
A99120	82	AKAP82
P96520	47	PTEN
S91320	150	SHIP-1/p150Ship
F89320	50	FEN-1
885320	130	SPA-1
C26520	80	Cypher1
M89520	22	MKBP
Labc20	62	LFB3
E78320	130	erg2
P76020	97	PPEF-2 long form
C80420	46	CD38
G96620	16	GRIFIN
I55220	**150**	**Integrin alpha 5**
L44820	**110**	**LRP**
H38220	**90**	**Hsp90**
P20520	74	PKC iota
P55120	**51**	**PKA RII alpha**
C12620	**40/25**	**Crk**
B36320	180	Brm
C45520	**90**	**Calnexin**
P22520	74	PKC lambda
N15920	**47**	**NCK**
S40220	**32**	**Syntaxin 4**
E27620	**25**	**eIF-4E**
B71520	**135/140**	**TFII-I**
G19020	190	p190
C40920	97	CDC27
M62720	**70**	**MEF2D**
H59520	**57**	**hILP/XIAP**
P73420	40	PKA C
R26320	**28**	**RhoGDI**
N25720	17	Nm23
D28120	**165**	**Desmoglein**
M94120	**127**	**hmSH3**
N61020	100	NAT1
H53220	**70**	**Hsp70**
A29220	55	Acetylcholine Receptor beta
E16220	**42**	**ERK2**
G59720	**23**	**GST-pi**
I31220	300	IP3R-3
A59820	**149**	**AKAP149**
C19220	**92**	**beta-Catenin**
C68220	**80**	**CLA-1**
F23220	46	FPTase beta
R64820	36	Ref-1
K25020	**27**	**Kip1/p27**
D29720	160	DAP Kinase
H72320	120	HIF-1 alpha
P65620	**62**	**p62 lck ligand**
F26820	48	FPTase alpha
I58620	32	Inhibitor 2
13931A	**95/105**	**Sp1**

Supplementary Table 2. Continued

Catalog No.	Mol. Wt.	Protein ID*
N48120	238	NuMA
H44620	**110**	**Hsp110**
T30420	72	TAFII70
C45820	63	CDC25B
C25820	40	CDC34
F46820	29	14-3-3 epsilon
K72820	395	Ki-67
V75320	150	Integrin alpha 2/VLA-2
P47120	116	PYK2/CAK beta
M14020	90	MCM5
N43620	**62**	**Nucleoporin p62**
G29620	**37**	**G beta**
U66820	18	UbcH7
C50920	135	Contactin
D84920	82	DDX1
N67620	65	NF-kappa B p65
A56920	**51**	**Annexin VII**
C57820	20	Caveolin 2
M85020	**113**	**MCAM**
I87320	**87**	**IKK beta**
A84320	**55**	**ALDH**
M85420	37	MKK3b
D86520	261	DNA Polymerase epsilon cat.
G85920	**94**	**Glucocorticoid R**
F88920	**74**	**FBP**
S87420	32	SIP1
A91020	**160**	**Adaptin delta**
S98420	**72**	**Skb1Hs**
P95220	53	PAF53
T81920	135/140	TFII-I
G88620	230	p230 trans Golgi
R90220	73	Reps1
E88120	**43**	**ECA39**
T90920	170	Topo II alpha
P63420	100	Plakophilin 2a
N90120	65	NMT-2
H88820	42	hPrp18
L10020	52/75	LEDGF
F67720	18–24	basic FGF
M13120	105	MCM6
E84420	47	beta-Enolase/ENO-3
A99520	121/84	AKAP121/S-AKAP84
C11020	290	Collagen VII alpha 1
H90720	140	HpRp16
L69320	**47**	**La Protein**
N17220	220	Nestin
S78120	**92**	**SRPK1**
X96820	**55**	**XRCC4**
H10520	**28**	**HES1**
P92020	400/500	Plectin
P32520	96	PMS2
U10820	71	UBA2
66201A	**55**	**DP-1**
C25020	**221**	**CHD3**
M92920	81	Mre11
F11020	**74**	**FIP-2**

Catalog No.	Mol. Wt.	Protein ID*
H22420	40	Hsp40
R54520	180	ROK alpha
P57920	**120**	**PRK1**
S21320	**92**	**Stat3**
S71420	**54**	**SRP54**
R20620	**36**	**RACK1**
R66320	**24**	**Rab8**
C27220	180–220	CD45
F71620	130	FYB/SLAP-130
K48020	**97**	**Karyopherin beta**
P54420	**72**	**PTP1D/SHP2**
L15620	56	lck
P56720	36	PCNA
V47020	**20**	**VHR**
R20720	250	RPTP beta
L30220	**200**	**L1**
L76620	**110**	**Lamp-1**
B63620	80	BMX
R43320	**48**	**RBBP**
A40720	**36**	**apoE**
R73920	21	Rho
D73020	125	DNA Polymerase delta
C42920	**100**	**CAS**
M36820	**78**	**Moesin**
F19720	59	fyn
E35820	**42**	**Flotillin-2/ESA**
D58520	21	DHFR
M75820	**200–220**	**MAP4**
R27020	**130**	**Rb2**
A35620	**106**	**Adaptin beta**
P15120	79	PKC theta
C23420	**62**	**Cyclin B**
N52120	46	Nek2
H57520	24	hsMAD2
N93320	320	C-Nap1
T73620	160	TIF2
R68320	**110**	**Rb**
T10120	70	TAP
C67520	**53**	**CART1**
C31720	**32**	**Caspase-3/CPP32**
G72420	15	GS15
D64220	350	DNA-PKcs/p350
Z72720	220	ZO-1
K57620	**105**	**KRIP-1**
E72920	**69**	**ERp72**
I75620	**48**	**Caspase-2/ICH-1L**
S55420	31	Syntaxin 6
A50620	**22**	**ALG-2**
E46520	220	eIF-4 gamma
S55820	**150**	**Symplekin**
P76420	**113**	**PARP**
S70720	89	Stat4
S60720	76	SLP-76
C86720	55	p55Cdc
T50320	34	TRADD
G16720	**24**	**GRB2**

Supplementary Table 2. Continued

Catalog No.	Mol. Wt.	Protein ID*
M62420	357	Mitosin
L65320	180	Integrin alpha L/LFA-1
C40320	**120**	**c-Cbl**
C62920	76	CUL-2
I71320	46	IAK1
C18520	33	Cdk2
C70820	**22**	**CDC42**
D80020	**160**	**DSIF**
R56420	**110**	**rSec8**
A30120	**70**	**Annexin VI**
P71720	55	PDI
H65220	35	HAX-1
C74720	150	CA150
D63020	87	Dystrobrevin
Z24820	70	ZAP70 Kinase
F22120	45	Fas/CD95/APO-1
E78920	**27**	**ERAB**
A79920	160	AIB-1
A78420	**95**	**HIF-1 beta/ARNT1**
C28420	60	CaM Kinase IV
P98120	**42**	**p38 MAPK**
R23520	**24**	**Ral A**
R33220	130	RPTP alpha
A36120	104	Adaptin gamma
G81020	68	G3BP
F65020	**48**	**Flotillin-1**
P24620	23	PMF-1
R75020	154	Rad50
N58820	120	NFAT-1
H76520	76	HEC
N88520	60	p54nrb
E59020	**45**	**ERP**
L73120	32	LAIR-1
G10020	210	GMAP-210
H86320	66	hPrp17
I85820	57	IRF5
R92420	36	RNase HI
M82020	19	Metablastin
N91820	280	NPAT
T11520	140	TTF
S83720	106	SATB1
T84620	66	TRF2
S86420	55	SKAP55
E80720	**27**	**eIF-6**
C93420	240	CRIK
E95720	110	Exportin-t
S95620	**74**	**SNX1**
M96020	38	Mona
A14120	11	Annexin II Light Chain
A97420	450	AKAP450
A93520	150	Ataxin-2
P17320	**68**	**PTP1C/SHP1**
J12420	**38**	**JAB1**
556433	15	Cytochrome c
S93920	340	SMRT
P94520	110	PI3-Kinase p110 alpha

Catalog No.	Mol. Wt.	Protein ID*
T93820	65	TLS
T92520	**33**	**TRAX**
B10520	150	Btf
P14420	110	p14-KB
B11020	60	BAF60a
H22020	40	Hsp40
M54020	42/40	Mcl-1
T70120	190	Thrombospondin-1
N52920	130	iNOS/NOS Type II
P65920	**59**	**PKB alpha/Akt**
B22620	26	Bcl-x
N32020	130	iNOS/NOS Type II
P15820	78	beta PIX
A47520	**55**	**beta-Arrestin1**
P63720	**140**	**PRK2**
D27120	100	Dynamin II
C14520	**50**	**Csk**
P23720	33	Pit-1
G95320	58	gp91phox
U15420	40	Ufd1L
F14420	**240**	**Fibronectin**
R78620	117	Rabaptin-5
S65720	62	STI1
M24520	**46**	**MEK2**
R32620	**25**	**Ran**
P46020	**19**	**p19Skp1**
E19420	185	erbB2
C24120	120	P-Cadherin
G37820	**93**	**Gelsolin**
P62220	**68**	**p68**
P47720	**36**	**PP2A Catalytic alpha**
B73520	**21**	**Bax**
G12920	120	Ras-GAP
R23820	**90**	**Rsk**
H75420	**58**	**hHR23B**
T41520	33	TFIIB
M51920	26	Mxi-1
N42420	15	NTF2
P77520	110	PNUTS
P13020	**85**	**PI3-Kinase**
T70420	53	TEF-1
M17020	45	MEK1
C28620	33	Cyclin D3
R02120	21	Ras
I61620	100	IRAK
E53020	80	Ezrin
A27320	68	Acetylcholinesterase
P72020	42	p38 delta/SAPK4
R60020	**25**	**Rab5**
S61920	15	SIII p15
S21120	**91/84**	**Stat1 (C-terminus)**
P12220	**148**	**Phospholipase C gamma**
L05620	56	Lyn
S55920	**40**	**SMN**
R23020	**21**	**Rap2**
L33420	150	LAR

Supplementary Table 2. Continued

Catalog No.	Mol. Wt.	Protein ID*
T57720	**101**	**Transportin**
H62120	**57**	**hILP/XIAP**
D56620	46	DAP3
F36620	24	FADD
P13320	85/80	Cortactin
C67120	150	CAF-1 p150
G51720	61	GRB14
D71820	43	DEK
H42020	23	HRF
C64020	**43/28**	**Cathepsin D**
I41720	130	Integrin beta 1
K55520	100	KAP3A
A31320	79	AKAP79
L60620	**52**	**LSP-1**
P27820	130	p130 Cas
P20120	**68**	**Sam68**
D76320	45	DFF45
G76220	**27**	**GS27**
B22020	220	BRCA1
D57220	100	Dyrk
M77120	**56**	**MST1**
N74120	42	Na,K ATPase beta 3
R41220	**74**	**RIP**
C88020	60	Cyclin A
M77320	**52**	**MST3**
H77220	36	Heme Oxygenase 2
P88320	**37/42**	**pICln**
I86220	200	Integrin beta 4
D90420	119	DBP2
R86820	**58**	**RIG-G**
65941A	**80**	**Ku-80**
N89620	49–68	NMT-1
T96120	180	Topo II beta
K95820	75	hcKrox
556597	100	DNA Topo I
P33820	87	Phospholipase C delta 1
M66720	43	MKP2
L11520	**24**	**LITAF**
14101A	145	Abl
G64520	110	GPI-Phospholipase D
P42820	90	80K-H
C50820	**50**	**CDC37**
N79420	**26**	**Nip1**
13981A	68	Raf
F56020	72/68	FKBP65
I81720	104	Integrin beta 3
F51420	**51**	**FKBP51**
C13020	100/79	hCNK1
I95020	**45**	**I kappa B epsilon**
E17120	**42–85**	**pan ERK**
S15520	170	Sos1
S66020	**110**	**Striatin**
C18720	33	Cdk4
C38320	18	Caveolin 3
U68920	400	Utrophin
G70220	160	MSH6

Catalog No.	Mol. Wt.	Protein ID*
C56520	**80**	**L-Caldesmon**
B54120	56	B56 alpha
R24720	**21**	**RBP**
P66520	**140**	**p140mDia**
M34520	102	MSH2
F69620	75	FIN13
G22320	46	GSK-3 beta
C12720	34	Cdk1/Cdc2
C37120	**22**	**Caveolin 1**
M68420	150	mSin3A
G51620	93	Gephyrin
C22420	70	Cox-2
E34620	**51**	**Ets-1**
P67420	**115**	**p115**
P64720	82	PKC eta
T39720	37	TBP
T85720	23	Tim23
T82220	200	Thrombospondin-2
C37020	120	E-Cadherin
X98220	87	XPD
E16320	62	ERK3
C77720	45	Cab45
N95520	110	Nedd4
F82720	85	FLAP
M93620	61	Mint3
A78720	41	AIM-1
G83820	28	GS28
K99720	115	KSR-1
P10420	70	PEX5
H98620	40	HspBP1
Fxxx20	22	Frequenin
K98220	95	KIF3B
A64120	38	AMPK beta
B12520	19	Bog
A63920	**280**	**ABP-280**
N30020	140	eNOS/NOS Type III
E50020	**71**	**EFP**
L85220	56	LXR
J31920	39	Jun
E46420	30	EB1
K38420	140	Kalinin B1
S21220	113	Stat2
I29320	48	ISGF3 gamma
F37720	**37**	**Fas Ligand**
E41120	**180**	**EEA1**
P16520	82	PKC alpha
L64920	63	LSF
P75720	**32**	**PITP alpha**
F14220	18–24	basic FGF
P41920	**150**	**p150Glued**
D25520	**100**	**Dynamin**
P67320	50	Pax-5
A13920	**38**	**Annexin I**
C26120	130	Cadherin-5
P54320	68	Paxillin
I58220	38	I kappa B alpha

Supplementary Table 2. Continued

Catalog No.	Mol. Wt.	Protein ID*
B61220	26	Bcl-x
C24420	21	Cip1/WAF1
N38620	140	eNOS/NOS Type III
R14320	**68**	**A-Raf**
A29920	**36**	**Annexin IV**
C43420	22	Caveolin 1
B92320	137	53BP2
A43920	**112**	**Adaptin alpha**
H46720	**75**	**HS1**
E51120	46	E2F1
R22020	21	Rap1
C47620	**43/28**	**Cathepsin D**
I53820	195	IQGAP1
G65120	130	GM130
H80920	50	HDAC3
A92820	130	Apaf-1
M60920	100	MCC
F58420	**79**	**5-Lipoxygenase**
V40620	**46**	**VASP**
T87920	**32**	**TRP32**
E83020	**50–53**	**EBP50**
E83920	120	Eg5
S12820	**92**	**Stat5A**
S84820	38	SII/TFIIS
U61320	18	Ubc9
S90020	**72**	**SNX2**
R90820	60	hRAD9
V94820	**27**	**Vti1b**
Jxxx20	175	Jagged 2
T20220	135	tyk2
E90320	95	Endoglin
R35420	45	RCC1
Cxxx20	112	Crm1
15126E	16	p16ink4
A82620	120	APM
Z91420	74	ZBP-89
K82520	53	Kanadaptin
F10520	17	FHIT
N87720	104	Neuropilin-2
P87520	60	PTRF
H11020	10	Hsp10
P79320	160	p160
C21620	102	alpha-Catenin
B80520	77	Btk
P44120	**47**	**Pleckstrin**
U95420	100	UBE3A
T94720	**72**	**TIEG2**
C99420	60	Chk2
C92720	44	CD40
S68020	**66/52/46**	**SHC**
T66920	240/230	TLP1
F97320	80	4F2 hc/CD98HC
R61720	29	RanBP1
R66120	135	Ras-GRF2
I16620	95	Insulin Receptor beta
P61520	62	p62dok

Catalog No.	Mol. Wt.	Protein ID*
P33720	**47**	**p47phox**
L59920	220	Laminin B2
A96220	150	AOX1
V34420	95	Villin
E77020	49	eIF-5
H59320	**32**	**Heme Oxygenase 1**
D77620	**48–52**	**Dematin**
T77420	172	TAF-172
A74220	95	AKAP95
M99920	**25**	**MnSOD**
S10520	**17**	**Spot 14**
S86120	34/37	SCP3
P75220	110	PI3-K p110 delta
P69820	**67**	**p67phox**
N77920	52	NDP52
I94320	180	IRS-1
L78220	55	LAP1
P77820	**45**	**p45/SUG1**
C81120	29	Cellugyrin
S59220	57/45	Selenoprotein P
I84520	113	Itch
S87620	70	p70s6k
U85520	**21**	**UbcH6**
M17520	83	MCM
L86020	60	Lysophospholipase
B10020	43	BPntase
T13820	215	Tensin
P16920	180	PDGF Receptor beta
N65420	55	Ndr
R61120	40	Ron alpha
R56320	**24**	**Rab11**
G11420	**195**	**p190-B**
P41620	**96**	**p96**
D99320	**88**	**DMPK**
I10220	**50**	**ILK**
B84220	528	BRUCE
W82920	162	WRN
N83220	**72**	**Nurr**
N83420	55	No55
P10620	38	PEX19
S97820	100	SH2-B
G93720	84	Golgin-84
A78520	**70**	**Aralar**
G49220	**50**	**GFAP**
B97920	23	Bid
C10020	90–115	CD54/ICAM-1
P10020	143	PEX1
D10520	**27**	**drp1**
V11220	11	V-1/myotrophin
E14720	**43/21**	**p43/EMAP II precursor**
M16520	190	MNK
B13020	82	BERP
P14120	220	Pericentrin
X97720	182	Xin
E10020	100	eEF-2 Kinase
N10020	56	Nek3

Supplementary Table 2. Continued

Catalog No.	Mol. Wt.	Protein ID*
680405	35/11	Caspase-6
A98020	175	Attractin
R19120	74	c-Raf-1
S88720	40	Syntaxin 11
S30520	11	S100P
C15720	105	Chromogranin B
S94220	80	Synapsin I
S10320	52	Syndapin I
G22020	22	Guanylate Kinase
F20120	135/100	4.1N
B11520	40	Bub3
H99020	**60**	**Hsp60**
S92220	**27**	**Syntaxin 8**
E17520	110	espin
M16020	35	Metaxin
A12520	105	AIP1
P97220	58	PKR
N13320	30	NES1
A94620	**540**	**Apolipoprotein B-100**
N91220	110	NABC1
K95120	**80**	**Katanin p80**
R97120	110	RECK
K32120	**34/106**	**KAP**
I96720	40/44	IGFBP-3
R79520	125	p116Rip
J24320	**20–130**	**JAK1**
C20820	120	E-Cadherin
C43820	**180**	**Clathrin Heavy Chain**
M76120	120	Mint2
O84720	46	OCT (3)
S29820	10	S100L
P17920	120	pp120
A12820	**30**	**Acrp30**
C21120	86	Chromogranin A
G13520	24	GAGE
Dxxx20	123	DLC-1
C97020	**36**	**Caspase-14**
N74320	60	NKT
N41520	155	NOSn
N12520	**92**	**NHE-1**
Z45420	83	Zyxin
D10020	41	Doublecortin
N12920	80	NHE-3
C16420	55	Calsequestrin
C36220	22	Caveolin 1
L13020	72	LIMK1
E93220	**46**	**mEPHX**
F83520	70	Fnk
C78820	43	Cathepsin L
G10920	67	GAD67
R32820	**90/45**	**Rin1**
N32720	56	Ntk
67391A	25	MGMT

Catalog No.	Mol. Wt.	Protein ID*
I68120	48	IGTP
M72220	**50**	**MEK5**
H83120	45	HsORC4
C11320	**45**	**Casein Kinase II alpha**
A10020	175/45	ASS
I89920	**48**	**IKK gamma**
S10120	48	SQS
T97620	47	Thrombin Receptor
L89820	**53**	**LCB1**
P54720	**53**	**PKA RII beta**
L74520	**53**	**LAP2**
C82320	54	Chk1
M91620	**54**	**MARCO**
H65520	**55**	**HSF4**
67381A	27	Bik
662305	55	Caspase 8
66411A	85	FAF
556452	36	Ercc-1
556367	32	CD3 zeta
15811A	185	c-erb-B2
P15320	39	PECI
556453	**34**	**XPA**
556596	**30**	**14-3-3**
15081A	56	Rag-2
554090	31	Cdk5
13311A	57	TCP-1
14821C	35	Cyclin D2
P11120		**Phosphotyrosine-PY20**
P39020		**Phosphotyrosine-PY69**
S99220	100	Phospho-Stat6 (Y641)
C91520	22	Phospho-Caveolin (Y14)
S89120	**100**	**Stat6**
C13620	**22**	**Caveolin 1**
F25020	**125**	**Phospho-FAK (Y397)**
Bxxx	23	Phospho-Bad
F15020	**125**	**FAK**
B36420	23	Bad
E12120	**180**	**EGF Receptor (activated form)**
E12020	180	EGF Receptor
550747	63	Phospho-Akt
P78020	63	PKB Kinase
P23520	68	Phospho-Paxillin (Y118)
P49620	**68**	**Paxillin**
STxx	92	Phospho-Stat5
S21520	**92**	**Stat5**
pxxx	53	Phospho-p53 (NEB)
P21020	53	p53
pxxxx	44/42	Phospho-p44/42(NEB)
M12320	**44/42**	**ERK1**
cdcxxx	34	Phospho-Cdc2
jxxx	54/46	Phospho-JNK
554286	54/46	JNK1

* Antibodies that detected their corresponding antigen in RA and/or OA synovial tissues are displayed in bold

Supplementary Table 3. Differentially expressed proteins in K55/RA against K42/OA synovial tissue

BD Powerblot				Affymetrix HG-U95A					
Ab	Protein name	Change Run 1/2/3	Fold change Run 1/2/3	Probe Set	Accession	Detection	Diff. Call	ADC	Fold change
Protein changes in triplicate, confidence level 5									
A94620	Apolipoprotein B-100	D/D/D	79.9/5.7/div/0	35332_at	X04714	A/A	NC	13.4	1.1
				261_s_at	M19828	A/A	NC	−55.7	−1.2
B40820	B2 Bradykinin Receptor	D/D/D	3.7/div/0/div/0	39309_at	M88714	A/P	NC	−290.4	−2.3
				39310_at	X86163	M/P	D	−1873.8	−4.6
C19220	beta-Catenin	D/D/D	2.6/2.1/2.3	40777_at	X87838	P/P	NC	658.2	1.1
C47620	Cathepsin D	D/D/D	5.1/16.1/20	239_at	M63138	P/P	NC	−3087.2	−1.1
C37120	Caveolin 1	D/D/D	3.0/3.8/15	36119_at	AF070648	P/P	NC	−5387.7	−1.3
E88120	ECA39	D/D/D	2.6/2.4/4.3	38201_at	U21551	P/P	NC	558.1	1.3
G51820	G alpha t	D/D/D	4.6/div/0/6	34571_at	Z18859	P/A	NC	67.9	1.3
				36085_at	X63749	A/A	NC	566.2	3.5
G85920	Glucocorticoid Rec.	D/D/D	9.8/9.1/div/0	1102_s_at	M10901	P/P	NC	8.4	1
				706_at	M10901	P/P	NC	−409.5	−1.2
				36690_at		P/P	NC	−1172.6	−1.6
H28520	Hck	I/I/I	3/15.8/13.6	40742_at	M16591	P/P	NC	3304.5	1.7
				2045_s_at	M16592	P/P	NC	1686.8	1.5
H46720	HS1	I/I/I	2.9/7.4/div/0	31820_at	X16663	P/P	I	15562	2
				32324_at	X57346	P/P	NC	4021.6	1.2
I89920	IKK gamma	I/I/I	2.1/6.3/5.2	36004_at	AF074382	P/P	NC	−350.6	−1.1
L30220	L1	D/D/D	2.2/2/7.5	31783_at	U52112	P/P	NC	748.6	1.7
M75820	MAP4	D/D/D	3/4.5/19.5	243_g_at	M64571	P/P	NC	−1512.8	−1.1
				242_at	M64571	P/P	NC	−1408.8	−1.2
P41620	p96/Disabled-2/DOC-2	D/D/D	2.3/4.9/div/0	479_at	U53446	P/P	NC	−7854.1	−1.4
P33720	p47phox	I/I/I	div/0/div/0/2.6	40159_r_at	M55067	P/P	I	19160.6	5.9
P44120	Pleckstrin	I/I/I	div/0/div/0/div/0	37328_at	X07743	P/P	I	1636.2	1.6
P18020	PTP1B	I/I/I	2/2.8/17.1	591_s_at	M33684	A/A	NC	164.8	1.7
				588_at	M31724	P/M	NC	1175.6	1.5
R66320	Rab8/mel	I/I/I	5.2/2.1/41.4	35339_at	AI743606	P/P	I	2586.1	1.5
				35340_at	AI819948	P/P	I	3229.1	1.8
S10520	Spot 14	I/I/I	div/0	not found					
S21120	Stat1 (C-terminus)	I/I/I	div/0/8.3/6.9	33338_at	M97936	P/P	I	11792.5	13.3
G16920	Stat1 (N-terminus)	I/I/I	95/15/8.1	M97935_MA_at	M97935	P/M	I	11442.6	10.1
				M97935_5_at	M97935	P/A	I	2011.6	10
				33339_g_at	M97936	P/P	I	10964.3	5.6
				M97935_MB_at	M97935	P/P	I	10038.7	5.5
				32859_at	M97935	P/P	I	1713.2	4.1
S21520	Stat5	D/D/D	div/0/3.7/div/0	40458_at	U43185	P/P	NC	201.6	1.5
				506_s_at	U43185	P/P	NC	2172.1	1.3
				473_g_at	U48730	A/A	NC	285.9	2.2
				472_at	U48730	A/M	NC	697.2	1.4
B71520	TFII-I	D/D/D	div/0/3.4/div/0	466_at	U77948	P/P	NC	−1047.6	−1.3
				35450_s_at	AF015553	P/P	NC	−570.5	−1.1
X96820	XRCC4	I/I/I	div/0/2.9/5.3	1360_at	U40622	P/P	NC	325	2.5

Supplementary Table 3. Continued

BD Powerblot				Affymetrix HG-U95A					
Ab	Protein name	Change Run 1/2/3	Fold change Run 1/2/3	Probe Set	Accession	Detection	Diff. Call	ADC	Fold change
Protein changes in triplicate, confidence level 4									
A63920	ABP-280/FilaminA	D/D/D	div/0/div/0/div/0	32750_r_at	X53416	P/P	NC	−1382.2	−1.3
C64020	Cathepsin D	D/D/D	div/0/4/div/0	239_at	M63138	P/P	NC	−3087.2	−1.1
L60620	LSP-1	I/I/I	2.6/12/3.3	36493_at	M33552	P/P	NC	−2664.6	−1.6
Protein changes in triplicate, confidence level 3									
A78520	Aralar	D/D/D	1.8/3.1/3.5	33256_at	Y14494	P/P	MD	−597.7	−2
A47520	beta-Arrestin1	I/I/I	6.8/2/1.9	not found					
F15020	FAK	D/D/D	1.7/3/div/0	36117_at	L13616	P/P	D	−1927.7	−1.9
F88920	FBP	D/D/D	1.7/2.1/2.3	39860_at	U05040	P/P	NC	−3.1	−1
G37820	Gelsolin	D/D/D	2.9/3.1/1.8	32612_at	X04412	P/P	D	−15167	−1.8
A78420	HIF-1 beta/ARNT1	D/D/D	4/1.7/4.9	35968_s_at	AF001307	A/P	NC	146.6	1.3
				35967_at	M69238	P/P	NC	403.8	1.3
I10220	ILK	D/D/D	1.7/3/6.1	35365_at	U40282	P/P	NC	−2277.8	−1.3
M58320	Mena-low	D/D/D	1.7/2.6/3.6	not found					
M99920	MnSOD	I/I/I	2.1/3.5/1.7	34666_at	X07834	P/P	I	6907.2	4.6
P69820	p67phox	I/I/I	div/0/2.4/1.8	41038_at	M32011	P/P	I	1371.8	1.9
P62220	PKR/p68	I/I/I	1.6/1.6/1.6	1008_f_at	U50648	P/P	NC	2416	1.6
R68520	Rab4	D/D/D	div/0/3.7/1.7	621_at	M28211	P/P	NC	614.7	1.5
				39244_at	M28211	M/P	NC	205.6	1.4
R23020	Rap2	I/I/I	2.5/1.5/2.2	41317_at	X12534	P/P	I	599.4	3.3
				41318_g_at	X12534	P/P	MI	631.9	3.8
				1819_at		A/A	MI	768.5	4.4
				1820_g_at		A/A	MI	853.3	4.8
				31696_at	X52987	A/A	NC	−52.6	−1.2
13931A	Sp1	D/D/D	1.6/1.9/4.8	1156_at	J03133	A/A	NC	82.5	1.4
S71420	SRP54	I/I/I	1.6/1.7/3	36060_at	U51920	P/P	NC	−199.7	−1.1
T33520	TIAR-low	D/D/D	1.6/7.6/11.8	41761_at	M96954	A/P	NC	−240.3	−2.1
T94720	TIEG2	D/D/D	1.5/1.7/1.5	40944_at	AF028008	A/P	NC	−0.7	−1
Protein changes in triplicate, confidence level 2									
F58420	5-Lipoxygenase	I/I/I	1.7/1.3/1.9	307_at	J03600	P/P	I	5526.7	3.3
A43920	Adaptin alpha	D/D/D	1.6/1.7/5.6	not found					
A56920	Annexin VII	D/D/D	1.9/3.6/3.7	39082_at	Y00097	P/P	NC	650	1.1
C67520	CART1	I/I/I	1.3/8.3/1.3	37912_at	X80200	P/P	NC	263	1.2
I75620	Caspase-2/ ICH-1L	D/D/D	3.9/1.5/2.7	34448_s_at	U13021	A/A	NC	83.1	1.4
				1239_s_at	U13021	A/A	NC	−77.1	−1.3
C95920	Ceruloplasmin	I/I/I	4.3/18.8/1.5	39008_at	M13699	P/P	NC	−1514.3	−1.5
C14520	Csk	I/I/I	1.3/3.7/7.4	1768_s_at	X59932	P/P	NC	5677.9	1.5
F51420	FKBP51	I/I/I	1.9/2.1/2.2	34721_at	U42031	P/P	I	12979.7	7
G49220	GFAP	I/I/I	div/0/1.4/div/0	40185_at	S40719	A/A	NC	55.2	1.2
G76220	GS27	I/I/I	5.2/7.4/1.4	38619_at	AA888001	P/P	NC	−70.4	−1.1
				38620_at	AA905543	P/P	NC	87.6	1.1
H99020	Hsp60	D/D/D	1.7/1.4/3.8	37720_at	M22382	P/P	NC	1063.9	1

Supplementary Table 3. Continued

BD Powerblot				Affymetrix HG-U95A					
Ab	Protein name	Change Run 1/2/3	Fold change Run 1/2/3	Probe Set	Accession	Detec-tion	Diff. Call	ADC	Fold change
H53220	Hsp70	D/D/D	3.4/2/1.5	1480_at	L12723	P/P	NC	−231.8	−1.1
				35965_at	X51757	P/P	MI	1825.3	2.6
				117_at	X51757	P/P	NC	1097.5	1.9
L74520	LAP2/ thymopoietin	I/I/I	1.8/1.4/4.7	32682_at	U09087	A/A	NC	153.2	1.7
				32683_at	U18271	P/A	MI	234.6	2
M58320	Mena-mid	D/D/D	1.3/1.3/3.1	not found					
P33820	Phospholipase C delta 1	D/D/D	div/0/1.4/3.6	37596_at	U09117	A/A	NC	−147	−1.2
S55920	SMN	I/I/I	1.3/3.7/5.4	37313_at	U80017	P/P	NC	95.5	1.2
				37277_at	U80017	A/A	NC	−11.5	−1.1
				33715_r_at	U80017	A/P	NC	−189	−1.8
T87920	TRP32	D/D/D	1.5/2.4/1.3	32214_at	AF003938	P/P	NC	314	1.1
Protein changes in duplicate, confidence level 1									
A73820	Acetylcholine Rec. alpha	I/D/I	5.6/< 1.25/3.3	34143_at	Y00762	A/A	NC	89.1	1.4
A12820	Acrp30	D/D/ns	div/0/div/0/ns	40658_r_at	D45371	A/P	D	−1122.8	−6
A30120	Annexin VI	I/I/D	10.6/div/0/< 1.25	39082_at	Y00097	P/P	NC	650	1.1
C45520	Calnexin	D/I/D	2.9/< 1.25/5.2	40125_at	L10284	P/P	NC	1346.9	1.1
C57020	CD100	I/D/D	<1.25/div/0/2.94	37284_at	U60800	A/A	NC	596.9	1.6
C12620	Crk	D/D/I	2.4/13.1/< 1.25	38219_at	D10656	P/P	NC	206.2	1.1
				772_at	D10656	P/P	NC	−797.7	−1.4
C12620	Crk-low	D/D/I	div/0/div/0/< 1.25						
E27620	eIF-4E	D/D/I	2.1/9.5/< 1.25	1420_s_at	D30655	P/P	NC	−553	−1
E18220	eps8	I/D/D	< 1.25/3.8/12.1	1467_at	U12535	P/P	D	−2690.2	−1.7
F64420	FKBP12	D/D/ns	div/0/div/0/ns	880_at	M34539	P/P	NC	191.2	1
G29620	G beta	D/D/I	4.4/5.7/< 1.25	33341_at	X04526	P/P	NC	−1752.8	−1.1
				32894_at	AF053356	A/A	NC	694.9	4.1
				34003_at	U47924	P/P	NC	3622.6	1.3
				225_at	M31328	A/A	NC	194.1	1.1
H82420	Hic-5	D/D/I	3.4/div/0/< 1.25	35146_at	AB007836	A/P	D	−2615.5	−3.8
I87320	IKK beta	D/NC/D	3.6/< 1.25/2.6	35960_at	AF031416	P/P	NC	64.8	1.1
K32120	KAP	D/D/I	3.6/div/0/< 1.25	1599_at	L25876	P/P	NC	122.9	1.2
K95120	Katanin p80	D/NC/D	2.5/< 1.25/3.9	40976_at	AF052432	A/A	NC	1139.2	3.8
G25020	LR11/SorLA/gp250	I/D/I	3/< 1.25/19.4	32140_at	Y08110	P/P	NC	3019.6	1.5
M85020	MCAM	D/NC/D	3.6/< 1.25/30.2	797_at	X68264	A/A	NC	61.7	1.3
N98720	Nexilin	D/D/I	2.2/< 1.25/< 1.25	not found					
G11420	p190-B	D/D/ns	5.4/3.2/ns	39927_at	U17032	P/P	NC	−77.4	−1.2
E14720	p43/EMAP II precursor	I/D/D	< 1.25/2.7/div/0	39734_at	U10117	P/P	NC	−160.2	−1.4
P55120	PKA RII alpha	D/D/I	45/div/0/< 1.25	116_at	X14968	P/P	NC	231.2	1.6
P35220	PP1	D/D/I	5.3/24/< 1.25	37725_at	X74008	P/P	NC	−2547.2	−1.2
				41244_f_at	X80910	A/P	NC	95.5	1.1
				32157_at	S57501	P/P	NC	1726.6	1.2

Supplementary Table 3. Continued

BD Powerblot				Affymetrix HG-U95A					
Ab	Protein name	Change Run 1/2/3	Fold change Run 1/2/3	Probe Set	Accession	Detection	Diff. Call	ADC	Fold change
P57920	PRK1	I/D/D	< 1.25/2.4/div/0	175_s_at	U33053	P/P	NC	197.9	1.1
R20620	RACK1	I/D/I	5.4/< 1.25/3.7	34608_at	M24194	P/P	NC	7899.3	1.2
R81320	RAFT1/FRAP	D/D/I	2.7/div/0/< 1.25	40139_at	U88966	P/P	NC	−50.1	−1
R68320	Rb	D/NC/D	div/0/< 1.25/36.4	2044_s_at	M15400	P/P	NC	1137.6	1.3
				1571_f_at	L49229	P/P	NC	349.4	2.3
				1900_at	L41870	P/P	NC	−42.4	−1.1
				1570_f_at	L49219	A/A	NC	−18.2	−1.1
				1672_f_at	L41913	P/A	I	529.7	3.4
P20120	Sam68	I/I/ns	div/0/div/0/ns	39346_at	M88108	P/P	NC	−994.1	−1.1
S68020	SHC	I/I/ns	div/0/div/0/ns	38118_at	U73377	P/P	NC	−5343.5	−1.4
S89120	Stat6	D/I/I	< 1.25/2.2/4.8	845_at	U16031	P/P	NC	−657.2	−1.2
				41222_at	AF067575	P/P	NC	2340.1	1.2
S92220	Syntaxin 8	D/D/ns	4.5/div/0/ns	37510_at	AF036715	P/P	NC	−799.4	−1.2

Display of all the differentially expressed proteins as scored by the BD Powerblot and their counterpart data on the RNA level as assessed by Affymetrix microarray analysis with the HG-U95A chip. The protein changes are grouped in 5 confidence levels by the BD Powerblot software. Changes greater than 2 fold in triplicate from good quality signals are of highest confidence (level 5). Changes greater than 2 fold in triplicate from low signals are listed next (level 4). This is followed by changes 1.5–1.9 fold in triplicate from good quality signals (level 3). Changes 1.25–1.9 fold in triplicate from low signals form the next confidence group (level 2). Finally changes greater than 2 fold in duplicate from good quality signals are shown (level 1). Ab = antibody ID from BD Transduction Labs; "Change" or "Diff. call" (difference call), respectively, score the relative change of gene expression of K55/RA against K42/OA as baseline (I increase, D decrease, MD = marginal decrease; MI = marginal increase; NC= not changed); For the BD Powerblot, the results of all three runs are given. Probe set = identifier for Affymetrix microarray HG U95A. "Fold change" resulted from BD Powerblot or Affymetrix Microarray suite 4.0 software computation. Again, for the BD Powerblot, the results of all three runs are shown. Accession = Genebank accession number. ADC = "average difference change", a measure of the expression differences for the probes set between K55/RA against K42/OA, a positive number denoting a increase, a negative number a decrease in K55/RA. Data based on Affymetrix decision matrix or BD Powerblot software evaluation. "div/0" stands for a division through zero, "not found" states that no probe set match on chip HG-U95A could be assigned to the protein data. A particular antibody specifies a data set.

Supplementary Table 4. Detected proteins scored not significantly changed between K55/RA and K42/OA synovial tissues

BD Powerblot			Affymetrix HG-U95A						
Ab	Protein name	Fold change Run 1/2/3	Probe Set	Accession	Detection	Diff. Call	ADC	Fold change	Description
556596	14-3-3	−1.9/−1.5/<+1.25	1011_s_at	U54778	P/P	NC	412.3	1.1	14-3-3 epsilon
			1235_at	M86400	P/P		1119	1	tyrosine 3-monooxygenase/ tryptophan 5-monooxygenase activation protein, zeta polypeptide
			34642_at	U28964	P/P	I	4234.4	1.8	14-3-3 protein
			33322_i_at	X57348	P/P	NC	684.7	1.1	mRNA (clone 9112)
			33323_r_at	X57348	P/P	NC	−453.6	−1.2	mRNA (clone 9112)
			1424_s_at	D78577	P/P	NC	−4458.5	−1.1	14-3-3 protein eta chain, exon2 and complete cds
			32324_at	X57346	P/P	NC	4021.6	1.2	HS1

Supplementary Table 4. Continued

BD Powerblot			Affymetrix HG-U95A						
Ab	Protein name	Fold change Run 1/2/3	Probe Set	Acces-sion	Detec-tion	Diff. Call	ADC	Fold change	Description
R14320	A-Raf	< 1.25/>−1.25/ns	not found						
A35620	Adaptin beta	−1.4/< 1.25/−5	36161_at	M34175	P/P	MD	−401.4	−1.7	beta adaptin
			40745_at	L13939	P/P	NC	1347.6	1	beta adaptin (BAM22)
A91020	Adaptin delta	−1.8/−2.6/ns	36172_s_at	AF002163	P/P	NC	−1334.3	−1.1	delta-adaptin
			36173_r_at	AF002163	A/P	NC	274.6	1.1	delta-adaptin
A59820	AKAP149	<+1.25/>−1.25/ns	37698_at	X97335	P/P	D	−354.2	−1.6	kinase A anchor protein
A58920	AKAP220	< 1.25/−1.4/−9.3	34657_at	AB014529	P/P	NC	−792.6	−1.3	mRNA for KIAA0629 protein
A84320	ALDH	< 1.25/1.8/7	37015_at	K03000	P/P	NC	2626.5	1.2	aldehyde dehydrogenase 1
A50620	ALG-2	< 1.25/>−1.25/< 1.25	37569_at	AF035606	P/P	NC	−1344	−1.1	calcium binding protein (ALG-2)
A13920	Annexin I	−1.3/−1.9/< 1.25	37403_at	X05908	P/P	NC	−4043.5	−1.2	lipocortin
A14020	Annexin II	< 1.25/−9.3/−1.6	31502_at	W27953	A/A	NC	809.8	4.6	cDNA
			769_s_at	D00017	P/P	NC	12904	1.2	lipocortin II
A29920	Annexin IV	<+1.25/−3.3/−1.9	37374_at	M82809	P/P	NC	−2727.5	−1.2	annexin IV (ANX4)
A40720	apoE	< 1.25/< 1.25/>−1.25	40565_at	AI358867	A/A	NC	37.2	1.1	cDNA, 3 end/clone= IMAGE-2012920
			608_at	M12529	P/P	NC	12887.6	1.5	apolipoprotein E
B73520	Bax	<+1.25/>−1.25/< 1.25	1997_s_at	U19599	P/P	NC	823.1	1.2	BAX delta
			1998_i_at	U19599	P/P	NC	1877.7	1.3	BAX delta
			2065_s_at	L22473	P/P	MI	480.9	2.1	Bax alpha
			2066_at	L22474	M/A	NC	345.2	2.5	Bax beta
			2067_f_at	L22475	A/A	NC	888.6	3.1	Bax gamma
G73320	BiP/GRP78	<+1.25/< 1.25/>−1.25	36614_at	X87949	P/P	NC	1992.6	1.2	BiP
C40320	c-Cbl	−1.5/< 1.25/−7.8	34416_at	X57110	A/A	NC	272.3	2.2	c-cbl proto-oncogene
C42920	CAS	+1.3/+1.3/>−1.25	38804_at	AF053641	P/P	D	−548.3	−1.7	brain cellular apoptosis susceptibility protein (CSE1)
C11320	Casein Kinase II alpha	< 1.25/ns/ns	36235_at	W26334	P/P	NC	−359.1	−1.4	cDNA/gb=W26334
			40258_at	M55265	P/P	NC	517	1.4	casein kinase II alpha subunit
			594_s_at	M55265	P/P	NC	247.6	1.1	casein kinase II alpha subunit mRNA
			37629_at	M55268	P/P	NC	−6.5	−1	casein kinase II alpha prime subunit
C97020	Caspase-14	< 1.25/>−1.25/<+1.25	not found						
C31720	Caspase-3/ CPP32	< 1.25/>−1.25/<+1.25	36143_at	U13737	P/A	MI	936.8	5.2	cysteine protease CPP32 isoform alpha
M64620	Caspase-7/ MCH-3	< 1.25/< 1.25/>−1.25	38281_at	U67319	P/P	NC	−817.5	−1.4	Lice2 beta cysteine protease
C13620	Caveolin 1	−20.6/−1.3/< +1.25	36119_at	AF070648	P/P	NC	−5387.7	−1.3	clone 24651 mRNA sequence
C50820	CDC37	ns/< 1.25/ns	505_at	U43077	P/P	NC	−537.3	−1	CDC37 homolog
C70820	CDC42	−1.3/−6.7/<+1.25	39736_at	M35543	A/A	NC	−56.9	−1.3	GTP-binding protein (G25K)
			40192_at	L10844	A/A	NC	492.8	3.2	cellular growth-regulating protein mRNA
C25020	CHD3	<+1.25/>−1.25/ns	34707_at	U91543	P/P	NC	−1532.6	−1.5	zinc-finger helicase (hZFH)

Supplementary Table 4. Continued

BD Powerblot			Affymetrix HG-U95A						
Ab	Protein name	Fold change Run 1/2/3	Probe Set	Acces-sion	Detec-tion	Diff. Call	ADC	Fold change	Description
C68220	CLA-1	<+1.25/>−1.25/ns	41200_at	Z22555	P/P	NC	1502.8	1.4	CLA-1 mRNA
C43820	Clathrin Heavy Chain	−2.2/−1.45/<1.25	33330_at	U41763	A/A	NC	4.2	1	muscle specific clathrin heavy chain (CLTD)
C14020	CPG16/CaM Kinase VI	<1.25/<1.25/<+1.25	38957_at	AB002367	P/P	D	−1966.9	−2.6	KIAA0369 gene, complete cds
C14020	CPG16/CaM Kinase VI-low	<1.25/+1.4/+9.2							
C23420	Cyclin B	+1.85/+13.6/<1.25	1945_at	M25753	P/P	NC	266.7	1.5	cyclin B mRNA, 3 end
			34736_at	M25753	P/P	NC	442.9	2.3	cyclin B mRNA, 3 end
D77620	Dematin		37192_at	U28389	A/A	NC	−36.3	−1	dematin 52 kDa subunit
D28120	Desmoglein	<1.25/>−1.25/<1.25	39586_at	AF097935	A/A	NC	−136.9	−1.6	desmoglein 1 (DSG1)
D80320	DLP1-80	>−1.25/<+1.25/ns	357_at	AF000430	P/M	NC	274.9	1.7	dynamin-like protein mRNA
			41201_at	AF000430	P/P	NC	−88.2	−1.2	dynamin-like protein mRNA
D99320	DMPK	<+1.25/>−1.25/ns	37996_s_at	L08835	P/P	D	−823.9	−1.8	DMR-N9, partial cds; and myotonic dystrophy kinase (DM kinase) gene
			37997_r_at	L08835	A/A	NC	508.6	3.3	CIDMR-N9, partial cds; and myotonic dystrophy kinase (DM kinase)
66201A	DP-1	<1.25/<+1.25/<1.25	1670_at	L23959	A/A	NC	245.7	1.9	E2F-related transcription factor (DP-1)
			37757_at	L23959	P/P	NC	−956.4	−1.2	E2F-related transcription factor (DP-1)
			37758_s_at	W28479	M/A	NC	−89.1	−1.4	cDNA/gb=W28479/ gi=1308427
D10520	drp1	<1.25/−1.84/−13	not found						
D80020	DSIF/ SUPT5H	+div/0/1.5/>−1.25	35826_at	AF040253	P/P	NC	−687.1	−1.2	transcription factor Tat-CT1
D74620	Dynactin	1.8/1.4/>−1.25	38475_at	U50733	P/P	NC	−1887.1	−1.4	dynamitin
D25520	Dynamin	<+1.25/−1.7/−1.4	32138_at	L07807	P/P	D	−5606.9	−2.5	dynamin mRNA, alternative exons and complete cds
			32622_at	L36983	P/P	NC	2456.6	1.3	dynamin (DNM)
E83020	EBP50/ SLC9A3R1	<1.25/>−1.25/ns	32174_at	AF015926	P/P	NC	1404.7	1.4	ezrin-radixin-moesin binding phosphoprotein-50
E41120	EEA1	3/1.5/>−1.25	39627_at	L40157	A/A	NC	−183.3	−1.8	endosome-associated protein (EEA1)
E50020	EFP/ZNF147	ns/ns/>−1.25	1617_at	D21205	A/A	NC	222.9	2	estrogen responsive finger protein
E12120	EGF Receptor (activated form)	−div/0/−div/0/<+1.25	1537_at	X00588	A/P	D	−306.5	−1.8	precursor of epidermal growth factor receptor
	Phospho-Form !!!		37327_at	X00588	A/A	NC	−649.6	−3.9	precursor of epidermal growth factor receptor
E80720	eIF-6	<1.25/>−1.25/<+1.25	35262_at	AF022229	P/P	NC	−745.3	−1.1	translation initiation factor 6 (eIF6)
E87220	Endothelin 1 Receptor	<1.25/ns/<+1.25	1507_s_at	D11151	P/P	NC	−1036.2	−2	endothelin-A receptor, exon 8 and 3 flanking region

Supplementary Table 4. Continued

BD Powerblot			Affymetrix HG-U95A						
Ab	Protein name	Fold change Run 1/2/3	Probe Set	Accession	Detection	Diff. Call	ADC	Fold change	Description
E87220	Endothelin 1 Receptor-high	>−1.25/<1.25/<1.25							
E78920	ERAB	<+1.25/−3/−1.5	40778_at	AF035555	P/P	NC	406.5	1.1	short chain L-3-hydroxyacyl-CoA dehydrogenase (SCHAD)
M12320	ERK1	−2/−1.5/<+1.25	1000_at	X60188	P/P	NC	−572.7	−1.1	ERK1 mRNA for protein serine/threonine kinase
E16220	ERK2	1.5/>−1.25/1.5	976_s_at	Z11695	P/P	NC	774.3	1.6	40 kDa protein kinase related to rat ERK2
E59020	ERP	1.3/>−1.25/2	37527_at	Z36715	P/P	NC	−142.4	−1.1	Net transcription factor
E72920	ERp72	<1.25/3.6/1.4	39113_at	AI262789	P/P	NC	1934.7	1.5	cDNA, 3 end/clone= IMAGE-1870970
E34620	Ets-1	>−1.25/<1.25/ns	1518_at	J04101	A/A	NC	−357.7	−2.2	erythroblastosis virus oncogene homolog 1 (ets-1)
			1977_s_at	X14798	A/A	NC	193	1.9	c-ets-1 proto-oncogene
F37720	Fas Ligand	>−1.25/<1.25/ns	1851_s_at	U11821	A/A	NC	63	1.3	Fas ligand (FasL)
			1858_at	D38122	A/A	NC	539.5	3.4	Fas ligand, complete cds
F72520	Fatty Acid Synthase	<+1.25/ns/ns	38429_at	U29344	M/P	D	−1711.4	−8.6	breast carcinoma fatty acid synthase
F14420	Fibronectin	<1.25/<1.25/>−1.25	31719_at	X02761	P/P	NC	4835.7	1.1	fibronectin (FN precursor)
			31720_s_at	M10905	P/P	NC	7334.5	1.2	cellular fibronectin
F11020	FIP-2/ Optineurin	<1.25/<+1.25/>−1.25	41742_s_at	AF061034	P/P	NC	1212.7	1.4	FIP2 alternatively translated mRNA
			41743_i_at	AF061034	P/P	NC	671.8	1.3	FIP2 alternatively translated mRNA
			41744_at	AF070533	P/P	NC	44.2	1	clone 24619 mRNA sequence
F65020	Flotillin-1	>−1.25/<1.25/<+1.25	40636_at	AI807620	A/A	MD	−1249.9	−1.7	cDNA, 3 end/clone= IMAGE-2358889
			40635_at	AF089750	P/P	NC	−518	−1	flotillin-1
E35820	Flotillin-2/ESA	1.5/5.7/>−1.25	32181_at	M60922	P/P	NC	121.1	1.1	surface antigen mRNA
G55620	GDNFR-alpha	<1.25/<+1.25/>−1.25	37142_at	AF038421	A/A	NC	−90.8	−1.4	GPI-linked anchor protein (GFRA1) mRNA
G55620	GDNFR-alpha-low	<1.25/>−1.25/<+1.25							
G16720	GRB2	<+1.25/>−1.25/<1.25	1565_s_at	M96995	P/P	NC	1910.5	1.6	epidermal growth factor receptor-binding protein GRB2
			33855_at	M96995	P/P	NC	−872.1	−1.2	epidermal growth factor receptor-binding protein GRB2 (EGFRBP-GRB2)
G59720	GST-pi	<1.25/>−1.25/<+1.25	33396_at	U12472	P/P	NC	1868.8	1.1	glutathione S-transferase (GST phi) gene
H59320	Heme Oxygenase 1	+div/0/+div/0/>−1.25	33802_at	Z82244	P/P	NC	−3258.4	−1.7	Heme Oxygenase 1 (HO-1, EC 1.14.99.3)
H10520	HES1	2.1/>−1.25/<+1.25	31927_s_at	D86062	P/P	NC	264.7	1.2	mRNA for KNP-Ib
			41749_at	U53003	P/P	NC	−222	−1	GT335 mRNA

Supplementary Table 4. Continued

BD Powerblot			Affymetrix HG-U95A						
Ab	Protein name	Fold change Run 1/2/3	Probe Set	Accession	Detection	Diff. Call	ADC	Fold change	Description
H75420	hHR23B	>−1.25/<+1.25/ns	1874_at	D21090	P/P	NC	−778.2	−1.2	mRNA for XP-C repair complementing protein (p58/HHR23B)
			41157_at	T89926	A/A	NC	202.9	1.9	cDNA, 5 end/clone= IMAGE-117499
H59520	hILP/XIAP	<+1.25/>−1.25/ns	1646_at	U45880	A/A	NC	271.4	2.2	X-linked inhibitor of apoptosis protein XIAP
H62120	hILP/XIAP	>−1.25/<+1.25/ns	1646_at	U45880	A/A	NC	271.4	2.2	X-linked inhibitor of apoptosis protein XIAP mRNA
H65520	HSF4	ns/>−1.25/<+1.25	720_at	D87673	A/P	NC	508.6	2.6	heat shock transcription factor 4
			721_g_at	D87673	A/A	NC	−275	−1.1	heat shock transcription factor 4
H44620	Hsp110	>−1.25/1.7/8.3	40354_at	AB023421	A/A	NC	−216	−2	heat shock protein apg-1
H38220	Hsp90	−13.5/−1.4/<+1.25	32316_s_at	X15183	P/P	NC	457.2	1	90-kDa heat-shock protein
I95020	I kappa B epsilon-high	−div/0/−1.3/ns	38276_at	U91616	P/P	NC	600.8	1.9	I kappa B epsilon (IkBe)
I95020	I kappa B epsilon-low	<1.25/>−1.25/ns							
I55220	Integrin alpha 5	<1.25/>−1.25/<+1.25	2058_s_at	M35011	P/P	D	−9539.6	−1.8	integrin beta-5
			39754_at	X53002	P/P	D	−8734.1	−2	integrin beta-5 subunit
J12420	JAB1/COPS5	<+1.25/>−1.25/ns	1789_at	U65928	P/P	NC	−813.5	−1.2	Jun activation domain binding protein mRNA
J24320	JAK1-high	−1.9/<1.25/−div/0	1457_at	M64174	P/P	NC	1304.5	1.2	protein-tyrosine kinase (JAK1)
			34877_at	AL039831	P/P	NC	1119.5	1.1	cDNA, 3 end/clone= DKFZp434D1112
			41594_at	M64174	P/P	NC	1481.5	1.1	protein-tyrosine kinase (JAK1)
J24320	JAK1-low	>−1.25/1.7/+div/0							
K48020	Karyopherin beta	−1.6/<+1.25/−6.7	41196_at	L38951	P/P	NC	−456.2	−1.3	importin beta subunit
K25020	Kip1/p27	<+1.25/>−1.25/ns	2034_s_at	U10906	A/A	NC	173	1.8	cyclin-dependent kinase inhibitor p27kip1
			33848_r_at	AI304854	P/P	NC	−153.4	−1.3	cDNA, 3 end/clone= IMAGE-1908989
			33847_s_at	AI304854	P/P	NC	831.1	1.3	cDNA, 3 end/clone= IMAGE-1908989
K57620	KRIP-1/KAP1/ TIF1 beta	1.5/3.4/>−1.25	33425_at	X97548	P/P	NC	−168.4	−1	TIF1beta zinc finger protein
65941A	Ku-80	<1.25/<1.25/>−1.25	2093_s_at	J04977	P/P	NC	−1550.5	−1.2	Ku autoimmune antigen gene
			38733_at	M30938	P/P	NC	−3274.9	−1.3	Ku (p70/p80) subunit mRNA
			584_s_at	M30938	P/P	NC	100.1	1	Ku (p70/p80) subunit
			585_at	M30938	P/P	NC	−2212.3	−1.2	Ku (p70/p80) subunit mRNA

Supplementary Table 4. Continued

BD Powerblot			Affymetrix HG-U95A						
Ab	Protein name	Fold change Run 1/2/3	Probe Set	Acces-sion	Detec-tion	Diff. Call	ADC	Fold change	Description
C56520	L-Caldesmon	<1.25/<+1.25/ns	41738_at	M64110	P/P	D	−3146.4	−2.1	caldesmon
			41739_s_at	M83216	P/P	D	−1575.5	−1.6	aorta caldesmon mRNA
L69320	La Protein	1.4/1.4/>−1.25	38450_at	X69804	P/P	NC	−830.5	−1.2	La/SS-B protein
L76620	Lamp-1	−1.9/<+1.25/−1.3	39758_f_at	J04182	P/P	NC	1998.8	1	lysosomal membrane glycoprotein-1 (LAMP1)
L74520	LAP2	<1.25/>−1.25/<+1.25	32682_at	U09087	A/A	NC	153.2	1.7	thymopoietin beta
			32683_at	U18271	P/A	MI	234.6	2	thymopoietin (TMPO)
L89820	LCB1	<1.25/−2.3/<+1.25	38818_at	Y08685	P/P	NC	−2149.1	−1.3	serine palmitoyl-transferase, subunit I
L11520	LITAF	6.2/2.9/ns	37024_at	AF010312	P/P	NC	4420.1	1.5	Pig7
			37025_at	AL120815	P/P	NC	1199.1	1.1	cDNA, 5 end/clone= DKFZp762F172
L44820	LRP	>−1.25/<1.25/<+1.25	38064_at	X79882	P/P	NC	1210.9	1.1	lrp
M41420	MAP2B	<+1.25/>−1.25/ns	183_at	U01828	P/P	NC	24.3	1.1	microtubule-associated protein 2 (MAP2)
			1972_s_at	U89330	A/A	NC	−55.4	−1.2	alternatively spliced microtubule-associated protein 2 (MAP2)
			35422_at	U01828	P/A	NC	340.3	2.5	microtubule-associated protein 2 (MAP2)
M91620	MARCO	>−1.25/<1.25/<+1.25	40331_at	AF035819	P/P	I	17667.5	1.7	macrophage receptor MARCO
M62720	MEF2D	<+1.25/>−1.25/ns	35434_at	L16794	P/P	NC	361.8	1.2	transcription factor (MEF2)
M24520	MEK2	−1.3/−1.7/<+1.25	1131_at	L11285	P/P	NC	−1232.1	−1.2	ERK activator kinase (MEK2) mRNA
			32519_at	AI193528	A/A	NC	423.1	2.9	cDNA, 3 end/clone= IMAGE-1744324
M72220	MEK5-high	−1.8/−div/0/ns	1698_g_at	U71087	P/P	NC	−58	−1	MAP kinase kinase MEK5b
			1699_at	U71088	A/P	NC	−55	−1.2	MAP kinase kinase MEK5c
			1722_at	U71087	P/A	NC	−89.6	−1.2	MAP kinase kinase MEK5b mRNA
			41230_at	U71087	A/A	NC	280.8	1.5	MAP kinase kinase MEK5b
			513_at	U25265	P/P	NC	128.2	1.4	MEK5 mRNA, complete cds
			1698_g_at	U71087	P/P	NC	−58	−1	MAP kinase kinase MEK5b mRNA, complete cds
			1699_at	U71088	A/P	NC	−55	−1.2	MAP kinase kinase MEK5c mRNA, complete cds
M72220	MEK5-low	+div/0/>−1.25/<+1.25							
M72220	MEK5-middle	<+1.25/>−1.25/ns							
E93220	mEPHX	+div/0/+div/0/ns	38790_at	L25879	P/P	D	−2465.7	−1.7	p53/HEH epoxide hydrolase (EPHX)
M36820	Moesin	<1.25/<+1.25/>−1.25	40771_at	Z98946	P/P	NC	4814.7	1.1	clone 376D21 on chromo-some Xq11.1-12
M94120	MSH3	<+1.25/−1.6/−7.2	1719_at	U61981	P/P	NC	18.6	1	putative mismatch repair/binding protein hMSH3 (hMSH3)
M77120	MST1	−4.8/<+1.25/−1.7	36294_at	U60207	A/A	NC	49.9	1.2	stress responsive serine/threonine protein kinase Krs-2

Supplementary Table 4. Continued

BD Powerblot			Affymetrix HG-U95A						
Ab	Protein name	Fold change Run 1/2/3	Probe Set	Accession	Detection	Diff. Call	ADC	Fold change	Description
M77320	MST3	>−1.25/<+1.25/ns	40473_at	AF024636	P/P	NC	1427.6	1.1	STE20-like kinase 3 (mst-3)
C10220	N-Copine	<1.25/>−1.25/<+1.25	40295_at	AB009288	P/P	NC	−411.8	−1	N-copine
N15920	NCK	<1.25/>−1.25/<+1.25	41795_at	X17576	P/P	I	4138.6	1.8	melanoma mRNA for nck protein, showing homology to src
			989_at	X17576	P/P	I	2287.3	1.8	melanoma mRNA for nck protein, showing homology to src
N12520	NHE-1	<1.25/−1.4/−1.6	32681_at	S68616	P/P	NC	−98.8	−1	Na+/H+ exchanger NHE-1 isoform [human, heart, mRNA, 4516 nt]
N79420	Nip1	+div/0/+div/0/ns	37226_at	U15172	P/P	NC	−88	−1.1	BCL2/adenovirus E1B 19kD-interacting protein 1 (BNIP1)
N43620	Nucleoporin p62	<1.25/<1.25/<+1.25	39274_at	X58521	P/P	NC	1716.4	2.3	p62 nucleoporin
N80220	Numb	1.7/>−1.25/7.2	37693_at	L40393	P/P	NC	111.7	1	clone S171 mRNA
N83220	Nurr	−div/0/−1.8/ns	37623_at	X75918	A/P	D	−1079.8	−5.8	mRNA for NOT
			547_s_at	S77154	A/P	D	−1579.4	−8.1	TINUR=NGFI-B/nur77 beta-type transcription factor homolog
P67420	p115 VDP	>−1.25/<+1.25/<1.25	37356_r_at	D86326	P/A	NC	−40.4	−1.1	p115
P66520	p140mDia	>−1.25/<+1.25/ns	41098_at	AB002379	P/P	MD	−1174.9	−2.4	KIAA0381 gene
P41920	p150Glued/ dynactin-1	<1.25/>−1.25/ns	36158_at	AF086947	P/P	NC	−1195	−1.4	untitled
P46020	p19Skp1	−2.1/−1.8/<+1.25	2010_at	U33760	P/P	NC	302.8	1	cyclin A/CDK2-associated p19 (Skp1)
P98120	p38 MAPK	<1.25/−1.3/−1.8	1671_s_at	L35253	P/A	NC	570.8	1.6	p38 mitogen activated protein (MAP) kinase
P77820	p45/SUG1	+div/0/+div/0/ns	37766_s_at	AF035309	P/P	NC	−1177.6	−1.3	clone 23598 mRNA
P68620	p47A-high/ AP-3 mu3A	−1.4/−3.2/<1.25	not found						
P68620	p47A-low	−1.3/−6.2/<+1.25							
P65620	p62 lck ligand/ sequestosome 1	<+1.25/>−1.25/ns	39465_f_at	W27474	A/A	NC	381.4	1.7	cDNA/gb=W27474/
			40898_at	U46751	P/P	NC	−1274.1	−1.1	gi=1307278 phosphotyrosine independent ligand p62 for the Lck SH2 domain mRNA
E17120	pan ERK-high	−2.1/<+1.25 −1.5	1000_at	X60188	P/P	NC	−572.7	−1.1	ERK1 mRNA for protein serine/threonine kinase
			976_s_at	Z11695	P/P	NC	774.3	1.6	40 kDa protein kinase related to rat ERK2
			36926_at	X80692	P/P	NC	−409.4	−1.1	ERK3 mRNA
E17120	pan ERK-low	−1.8/−2.1/<1.25							
P76420	PARP	+div/0/1.3/>−1.25	1287_at	J03473	P/P	NC	2192.6	1.4	poly(ADP-ribose) synthetase mRNA
			41146_at	J03473	P/P	NC	886.4	1.2	poly(ADP-ribose) synthetase mRNA

Supplementary Table 4. Continued

BD Powerblot			Affymetrix HG-U95A						
Ab	Protein name	Fold change Run 1/2/3	Probe Set	Accession	Detection	Diff. Call	ADC	Fold change	Description
P49620	Paxillin	−div/0/−div/0/ns	38644_at	U14588	A/A	NC	−630.8	−1.3	paxillin
F25020	Phospho-FAK (Y397)	−div/0/−div/0/ns	36117_at	L13616	P/P	D	−1927.7	−1.9	focal adhesion kinase (FAK) mRNA
P12220	Phospholipase C gamma	−div/0/<+1.25/>−1.25	1082_at	M34667	A/A	NC	−110.7	−1.5	phospholipase C-gamma
			34351_at	AL022394	M/A	NC	300.8	1.1	1-Phosphatidylinositol-4,5-Bisphosphate Phosphodiesterase Gamma 1 (EC 3.1.4.11)
P11120	Phosphotyrosine-PY20	>−1.25/>−1.25/<1.25							
P39020	Phosphotyrosine-PY69	ns/ns/<+1.25							
P13020	PI3-Kinase	<1.25/8.1/7.7	1269_at	M61906	P/P	NC	268	1.4	P13-kinase associated p85 mRNA sequence
			35373_at	M61906	P/P	NC	257.1	1.4	P13-kinase associated p85 mRNA sequence
P88320	pICln	<1.25/1.4/+div/0	38732_at	X91788	P/P	NC	2532.4	1.3	Icln protein
P75720	PITP alpha	<+1.25/>−1.25/ns	352_at	D30036	P/P	NC	305.5	1.1	phosphatidylinositol transfer protein (PI-TPalpha)
			38023_at	D30036	A/A	NC	153.9	1.7	phosphatidylinositol transfer protein (PI-TPalpha)
P54720	PKA RII beta	1.8/<1.25/6.7	37221_at	M31158	P/P	NC	182.6	1.4	cAMP-dependent protein kinase subunit RII-beta
P65920	PKB alpha/Akt	1.3/>−1.25/+div/0	1564_at	M63167	P/P	NC	−1292.6	−1.1	rac protein kinase alpha
P17920	pp120	<1.25/−2/ns	40443_at	AF062341	A/P	NC	−1051.8	−1.5	p120 catenin isoform 1ABC (CTNND1)
			40444_s_at	AB002382	P/P	NC	−3240.3	−1.4	mRNA for KIAA0384 gene
P47720	PP2ACatalytic alpha	<+1.25/<1.25/ns	33181_at	M60483	A/A	NC	27	1.1	protein phosphatase 2A catalytic subunit-alpha gene
P63720	PRK2	2.1/>−1.25/2	199_s_at	U33052	P/P	NC	237	1.2	lipid-activated, protein kinase PRK2 mRNA
			36835_at	U33052	A/A	NC	70.6	1.3	lipid-activated, protein kinase PRK2
P83620	Psme3	1.5/>−1.25/3.8	39796_at	U11292	P/P	NC	−627.3	−1.8	Ki nuclear autoantigen
P17320	PTP1C/SHP1	<1.25/1.5/4	794_at	X62055	P/P	NC	2618.7	2.4	PTP1C mRNA for protein-tyrosine phosphatase 1C
P54420	PTP1D/SHP2	<1.25/<+1.25/>−1.25	1870_at	D13540	P/P	NC	156.9	1.5	SH-PTP3 mRNA for protein-tyrosine phosphatase
			1871_g_at	D13540	A/A	NC	125.5	1.6	SH-PTP3 mRNA for protein-tyrosine phosphatase
R56320	Rab11	2.7/+div/0/>−1.25	36660_at	AF000231	P/P	NC	−1852.9	−1.4	rab11a GTPase
			34478_at	X79780	P/P	NC	219.1	1.2	YPT3
R60020	Rab5	−1.4/−2.2/ns	36110_at	M28215	P/P	NC	−2210.4	−1.3	GTP-binding protein (RAB5)
			600_at	M28215	P/P	NC	59.9	1.1	GTP-binding protein (RAB5)
			34836_at	U18420	P/P	NC	3642.2	1.6	ras-related small GTP binding protein Rab5 (rab5)
			37362_at	X54871	P/P	NC	801.5	1.3	ras-related protein Rab5b

Supplementary Table 4. Continued

BD Powerblot			Affymetrix HG-U95A						
Ab	Protein name	Fold change Run 1/2/3	Probe Set	Accession	Detection	Diff. Call	ADC	Fold change	Description
R56220	Rac1	<+1.25/−3.4/−1.3	2050_s_at	M29870	P/P	NC	−2347.4	−1.1	ras-related C3 botulinum toxin substrate (rac)
			40864_at	D25274	P/P	NC	2902.2	1.1	clone-PO2ST9
R23520	Ral A	1.9/>−1.25/1.5	39253_s_at	M29893	P/P	NC	297.2	1.4	low molecular mass GTP-binding protein (ral) mRNA
R32620	Ran	−3.8/1.5/<1.25	38708_at	AF054183	P/P	NC	3439.7	1.1	GTP binding protein mRNA
R27020	Rb2	2.5/1.6/>−1.25	32596_at	W25828	A/A	NC	117.7	1.5	cDNA/gb=W25828/ gi=130595
			1986_at	X74594	P/P	NC	223.7	1.2	mRNA for Rb2/p130 protein
R43320	RBBP	>−1.25/<+1.25/ns	1318_at	X74262	P/P	MI	1892.8	2	RbAp48 mRNA encoding retinoblastoma binding protein
			40418_at	X74262	P/P	NC	−3.6	−1	RbAp48 mRNA encoding retinoblastoma binding protein
R24720	RBP	<1.25/<+1.25/ns	38634_at	M11433	A/A	NC	412.7	2.8	cellular retinol-binding protein mRNA
R43020	Rch-1	<1.25/−1.7/−5.1	40407_at	U28386	P/P	NC	598.8	1.3	nuclear localization sequence receptor hSRP1alpha
R26320	RhoGDI	1.4/>−1.25/1.4	32499_at	AF080237	A/A	NC	2116.2	2.2	Rho GDP-dissociation inhibitor gamma (ARHGDIG)
R86820	RIG-G	<1.25/+div/0/+div/0	38584_at	AF026939	P/P	I	5068.4	2.5	CIG49 (cig49)
R32820	Rin1	−1.7/−1.9/<+1.25	1777_at	L36463	A/A	NC	−170.6	−1.8	ras interactor (RIN1)
			1778_g_at	L36463	P/P	NC	64.9	1.1	ras interactor (RIN1)
			39532_at	L36463	A/A	NC	−338	−2.2	ras interactor (RIN1)
R32820	Rin1-middle	−1.8/−3.6/<1.25							
R41220	RIP	−div/0/<1.25/ns	40696_at	U50062	P/P	NC	141.4	1.1	RIP protein kinase
			475_at	U50062	P/A	NC	571.1	1.8	RIP protein kinase
R56420	rSec8	+1.9/+1.9/>−1.25	not found						
R23820	Rsk	>−1.25/<1.25/ns	1127_at	L07597	P/P	NC	1763.7	1.8	ribosomal protein S6 kinase 1 (RPS6KA1)
			32892_at	X85106	M/P	NC	−254	−1.3	ribosomal S6 kinase
			33229_at	U08316	P/P	NC	336.6	1.1	insulin-stimulated protein kinase 1 (ISPK-1)
			865_at	U08316	P/P	NC	310	1.1	insulin-stimulated protein kinase 1 (ISPK-1)
S68020	SHC	<+1.25/>−1.25/ns	38118_at	U73377	P/P	NC	−5343.5	−1.4	p66shc (SHC) mRNA
U85520	Skb1Hs	<1.25/−1.7/−2.2	not found						
S71120	Smad4/DPC4	<1.25/−9.5/−1.3	36953_at	U44378	P/P	NC	−591.7	−1.3	homozygous deletion target in pancreatic carcinoma (DPC4)
			509_at	U44378	P/P	NC	−262.5	−1.2	homozygous deletion target in pancreatic carcinoma (DPC4)
			510_g_at	U44378	P/P	NC	−120.6	−1.1	homozygous deletion target in pancreatic carcinoma (DPC4)

Supplementary Table 4. Continued

BD Powerblot			Affymetrix HG-U95A						
Ab	Protein name	Fold change Run 1/2/3	Probe Set	Accession	Detection	Diff. Call	ADC	Fold change	Description
S95620	SNX1	$<1.25/-3.9/-1.7$	36583_at	U53225	P/P	NC	2166.2	1.4	sorting nexin 1 (SNX1)
S90020	SNX2	$+1.5/+1.4/>-1.25$	41462_at	AF065482	P/P	NC	−865.3	−1.1	sorting nexin 2 (SNX2)
S78120	SRPK1	$<1.25/-1.3/-3.2$	1031_at	U09564	P/P	NC	135.9	1.1	serine kinase mRNA
S21320	Stat3	$-1.71/<+1.25/-3.8$	289_at	L29277	P/P	NC	−1328.3	−1.2	DNA-binding protein (APRF)
			39708_at	L29277	P/P	NC	−4898.1	−1.2	DNA-binding protein (APRF)
S12820	Stat5A	$<1.25/<1.25$/ns	40458_at	U43185	P/P	NC	201.6	1.5	signal transducer and activator of transcription Stat5A
			506_s_at	U43185	P/P	NC	2172.1	1.3	signal transducer and activator of transcription Stat5A
S66020	Striatin	$-3.4/<+1.25/-1.8$	33298_at	AJ223814	A/A	NC	83.1	1.4	striatin
S55820	Symplekin	$-1.4/<+1.25/-5.4$	32402_s_at	Y10931	A/A	NC	154.3	1.3	symplekin
S40220	Syntaxin 4	$<1.25/>-1.25/<+1.25$	37911_at	U07158	P/P	NC	−444.5	−1.1	syntaxin
T50320	TRADD	$<1.25/-1.8/-1.46$	1729_at	L41690	P/P	NC	1905	1.5	TNF receptor-1 associated protein (TRADD)
			33166_at	AI439047	A/A	NC	−17.8	−1.1	cDNA, 3 end/clone= IMAGE-2073375
T57720	Transportin	$>-1.25/<1.25/<1.25$	40463_at	U70322	P/P	I	1034.7	1.9	transportin (TRN)
			40464_g_at	U70322	P/P	NC	850	1.4	transportin (TRN)
T92520	TRAX	$<1.25/>-1.25/<+1.25$	41051_at	X95073	P/P	NC	−502.2	−1.1	mRNA for translin associated protein X
U85520	UbcH6	+div/0/+div/0/ns	37358_at	AI039880	P/P	NC	213.9	1.1	cDNA, 3 end/clone= IMAGE-1664278
V40620	VASP	$<+1.25/>-1.25/<1.25$	39105_at	Z46389	P/M	NC	454.9	1.4	vasodilator-stimulated phosphoprotein (VASP)
V47020	VHR	$+$div/0/$>-1.25/1.7$	275_at	L05147	P/P	I	611.3	3.7	dual specificity phosphatase tyrosine/serine
			41225_at	AL049417	P/P	NC	−931.3	−1.3	cDNA DKFZp58601919
			41226_at	L05147	P/A	I	679.6	2.2	dual specificity phosphatase tyrosine/serine
V85620	Vti1a	$+1.4/>-1.25/<+1.25$	not found						
V94820	Vti1b	$-1.5/-2.5$/ns	32647_at	AF060902	P/P	NC	504.7	1.1	vesicle soluble NSF attachment protein receptor VTI2
556453	XPA	$-3.1/-2.3$/ns	1308_g_at	D14533	A/P	NC	−617.9	−1.8	mRNA for XPAC protein
			1307_at	D14533	P/P	NC	−556.4	−1.6	mRNA for XPAC protein

Display of all detected proteins that were scored “not changed” by the BD Powerblot along with their respective transcript data (as assessed by Affymetrix microarray analysis with the HG-U95A chip). All signals for the proteins in this table did not fulfill the criteria for confidence levels 1–5 described in legend to supplement table 3. For explanation of data and abbreviations see also legend to supplement table 3.