

Table S1. Proteins regulated by YB-1 based on Kinex™ antibody microarray analysis

Target Protein Name	Phospho Site (Human)	% CFC*	Target Protein Name	Phospho Site (Human)	% CFC*
LIMK1/2	Y507+T508/Y504+T505	365	CASK/Lin2	Pan-specific	-97
RSK1/2	S380/S386	269	GFAP	S8	-86
ZAP70	Y315+Y319	230	CASP4	Pan-specific	-85
PKA Cb	S338	198	4E-BP1	S65	-85
ErbB2 (HER2)	Y1248	196	Axl	Pan-specific	-85
Arrestin b1	Pan-specific	192	CAMK2d	Pan-specific	-83
Src	Y529	177	CK1g2	Pan-specific	-83
GSK3a/b	Y279/ Y216	177	STAT3	Pan-specific	-82
Mnk1	T209+T214	174	CASP12	Pan-specific	-82
IKKg/NEMO	Pan-specific	167	Caveolin 2	S23	-81
CDK1/2	Y15	161	CaMK1d	Pan-specific	-77
AMPKb	Pan-specific	157	CAMK2b	Pan-specific	-73
Paxillin	Pan-specific	154	CASP7	Pan-specific	-73
MARK	Pan-specific	149	Trail	Pan-specific	-72
HspBP1	Pan-specific	149	FGFR2	Pan-specific	-72
PKC-nu (PKN3)	Pan-specific	149	ANKRD3	Pan-specific	-69
Cdc34	Pan-specific	148	Erk4	Pan-specific	-68
Tau	S716	148	PARP1	Pan-specific	-68
eIF4E	Pan-specific	142	PKA Ca/b	Pan-specific	-67
Cofilin	Pan-specific	135	PKBa (Akt1)	S473	-66
PKCd	S664	125	p38g MAPK (Erk6)	Pan-specific	-66
p53	Pan-specific	118	STAT5A	Pan-specific	-65
CDK9	Pan-specific	116			
PKR1	T451	115			
PP4/A'2	Pan-specific	114			
PKR1	Pan-specific	112			
Vrk1	Pan-specific	111			
PI3K	Pan-specific	109			
PTEN	Pan-specific	103			
ZIPK	Pan-specific	103			
ZAP70	Y292	102			
PP2A/Aa/b	Pan-specific	102			
PKCq	Pan-specific	101			
CDK6	Pan-specific	98			

* %CFC refers to the percent change from control (uninduced HTRY cells)

Table S2. List of antibodies, dilutions, and suppliers used for immunoblotting (IB) and immunofluorescence (IF)

Antibody	Dilution	Supplier
Pan-actin	1:1000	Cell Signaling
α -tubulin	1:200	Abcam
CDK2	1:1000	Cell Signaling
Cenexin1	1:100	Abcam
CNTROB	1:100	Abcam
Cyclin E (clone HE12)	1:1000	Millipore
EGFR	1:1000	StressGen
FLAG M2	1:2000 (IB); 1:1000 (IF)	Sigma
HER2	1:200	Abcam
pHistone H3 (S10)	1:100	Cell Signaling
LIMK1	1:1000	Abcam
pLIMK1/2 ^{T508/T505}	1:1000 (IB); 1:20 (IF)	Santa Cruz
p27 ^{Kip1} (C-19)	1:1000	Santa Cruz
p53 (DO-1)	1:100	Santa Cruz
Pericentrin	1:500 (IB); 1:250 (IF)	Abcam
Phalloidin (AF488-conjugate)	1:100	Invitrogen
PLK1	1:100	Sigma
RSK1	1:1000	Santa Cruz
RSK2	1:500	Santa Cruz
RSK1/2/3	1:1000	Cell Signaling
pRSK ^{S380}	1:1000	Cell Signaling
γ -tubulin (clone D-10)	1:1000 (IB); 1:50 (IF)	Santa Cruz
YB-1	1:2000	Cell Signaling
pYB-1 ^{S102}	1:1000 (IB); 1:200 (IF)	Cell Signaling
Vinculin	1:1000	Upstate

Table S3. siRNA target sequences

siRNA	siRNA target sequence	Manufacturer
RSK1	CCCAACATCATCACTCTGAAA	Qiagen
RSK2	AGCGCTGAGAATGGACAGCAA	Qiagen
YB-1 #1	CCACGCAATTACCAGCAAA	Dharmacon
YB-1 #2	Hs_YBX1_1_HP Validated siRNA (#SI03019191)	Qiagen
Scrambled	AATTCTCCGAACGTGTCACGT	Qiagen