

## Supplementary information Table 1. Results of computational prediction for HDAC3 tyrosine phosphorylation

<b>Residue</b>	<b>Amino acid</b>	<b>Context</b>	<b>Score*</b>	<b>Kinase</b>
7	Y	KTVAYFYDP	0.398	INSR
9	Y	VAYFYDPDV	0.411	INSR
18	Y	GNFHYGAGH	0.46	EGFR
39	Y	LVLHYGLYK	0.367	Src
42	Y	HYGLYKKMI	0.405	INSR
51	Y	VFKPYQASQ	0.435	INSR
66	Y	HSEDYIDFL	0.979	unsp
107	Y	FCSRYTGAS	0.555	EGFR
146	Y	SGFCYVNDI	0.58	unsp
160	Y	ELLKYHPRV	0.395	INSR
166	Y	PRVLYIDID	0.814	unsp
182	Y	QEAFYLTDR	0.467	EGFR
195	Y	SFHKYGNFY	0.455	INSR
198	Y	KYGNFYFFPG	0.477	INSR
207	Y	TGDMYEVGA	0.739	unsp
216	Y	ESGRYYCLN	0.681	unsp
217	Y	SGRYYCLNV	0.428	INSR
232	Y	DDQSYKHLF	0.452	INSR
247	Y	VVDFYQPTC	0.44	unsp
282	Y	ECVEYVKSF	0.831	INSR
309	Y	RCWTYETSL	0.643	unsp
325	Y	EELPYSEYF	0.769	unsp
328	Y	PYSEYFEYF	0.481	Src
331	Y	EYFEYFAPD	0.507	Src
354	Y	NSRQYLDQI	0.391	INSR
387	Y	DLLTYDRTD	0.366	INSR
404	Y	PEENYSRSG	0.982	unsp

The protein sequences of HDAC3 (Genebank Accession: AAC52038) was submitted in FAST format, checked for tyrosine residues for prediction, and the results displays only the best prediction for each residue.

\* The true phosphorylation sites should obtain a score close to 1.0 and non-phosphorylation sites should get scores close to 0.0.

Supplementary information Table 2. Antibodies used for WB and IP assays

	<b>Vendor Cat no.</b>	<b>Local</b>	<b>Country</b>	<b>Titer</b>	<b>usage</b>
<b><math>\alpha</math>Myc</b>	Abcam G077	Richmond, BC	CANADA	1:1000 (1:100)	W.B (IP)
<b><math>\alpha</math>Flag</b>	Sigma-Aldrich F7425	St. Louis, MO	USA	1:1000 (1:100)	
<b><math>\alpha</math>HA</b>	Proteintech 66006-1	Rosemont, IL	USA	1:1000 (1:100)	
<b><math>\alpha</math>c-Src</b>	Cell signaling 2109	Danvers, MA	USA	1:1000	
<b><math>\alpha</math>EGFR</b>	Santa Cruz Biotechnology SC-03	Dallas, Texas	USA	1:1000	
<b><math>\alpha</math>p-EGFR</b>	Epitomics 1727-1	Burlingame, CA	USA	1:1000	
<b><math>\alpha</math>HDAC3</b>	Cell signaling #2632	Danvers, MA	USA	1:1000	
<b><math>\alpha</math><math>\beta</math>Actin</b>	Sigma-Aldrich A5441	St. Louis, MO	USA	1:10000	
<b><math>\alpha</math>pHDAC3<sup>Y328/331</sup></b>	AB Frontier	Seoul, South Korea	KOREA	1:2000	
<b><math>\alpha</math>HDAC1</b>	Cell signaling #2062	Danvers, MA	USA	1:1000	