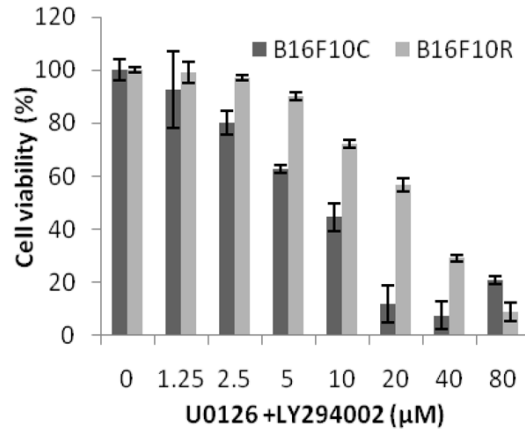


HDAC2 phosphorylation in drug-resistant melanoma



Supplementary Figure 1. Effects of the drug combination on the proliferation of B16F10. The parental (B16F10C) and resistant melanoma (B16F10R) cells were treated with the drug combination at various concentrations (0.62-80 µM). This figure is the results of the MTT assay- parental (dark bars) and resistant (light bars). Data shown are means \pm SEM of three replicate wells. Graphs were plotted with concentration of the inhibitor (X-axis) Vs cell viability % (Y-axis) and the IC_{50} values were calculated using the formula $y = b + ax$. IC_{50} values are the concentration of the drug combination which results in 50% cell death.

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Supplementary Table 1. List of novel phosphosites (n=74) on 47 proteins identified in 95 proteins from LC-MS and bioinformatic analyses

SR NO	GENE ID	DESCRIPTION	PHOSPOSITES
1	Bclaf1	bcl-2-associated transcription factor 1 isoform 1	S395(100); T400(100)]
2	Map4k4	Mitogen-activated protein kinase kinase kinase 4 isoform X1	S787(98.7)]
3	Psip1	PC4 and SFRS1-interacting protein isoform 1	S272(99.9); S274(100)]
4	Iws1	protein IWS1 homolog [Mus musculus]	S343(100); S345(100)]
5	Eif5b	eukaryotic translation initiation factor 5B	S184(100); S187(100); S191(100)]
6	Pnn	pinin	S701(100); S704(99)]
7	Nvl	nuclear valosin-containing protein-like	S190(100)]
8	Ctr9	RNA polymerase-associated protein CTR9 homolog	S1079(100); S1083(98)]
9	Larp1	la-related protein 1	S826(96.1); S828(95.4)]
10	Top2b	DNA topoisomerase 2-beta	S1539(100)]
11	Psip1	PC4 and SFRS1-interacting protein isoform 1	S272(99.9); S274(100)]
12	Ubap2l	PREDICTED: ubiquitin-associated protein 2-like isoform X1	S644(95.8); S/Y/T]
13	Eif4g1	PREDICTED: eukaryotic translation initiation factor 4 gamma 1 isoform X2	S708(100)]
14	Rcc2	protein RCC2	S48(99.9); S49(99.9)]
15	Cdc42bpb	PREDICTED: serine/threonine-protein kinase MRCK beta isoform X1	S1705(100); S1709(100)]
16	Safb	scaffold attachment factor B1 isoform X1	S577(98.7)]
17	Chd4	chromodomain-helicase-DNA-binding protein 4 isoform X1 [Mus musculus]	S1563(100)]
18	Acin1	apoptotic chromatin condensation inducer in the nucleus isoform 2	S1003(100)]
19	Gatad2b	transcriptional repressor p66-beta	T121(100); S123(100); S130(100); S136(96.6)]
20	Ddx46	probable ATP-dependent RNA helicase DDX46	S102(100); S104(98.8); S106(100)]
21	Scrib	protein scribble homolog isoform 2	S1292(100)]
22	Nop2	PREDICTED: probable 28S rRNA (cytosine-C(5))-methyltransferase isoform X1	T169(100)]
23	Ppig	PREDICTED: peptidyl-prolyl cis-trans isomerase G isoform X1	S354(100); T356(100)]
24	Mlit4	PREDICTED: afadin isoform X1	S1180(97.9); S1190(100)]
25	Eif3b	eukaryotic translation initiation factor 3 subunit B	S68(100); S79(96.9); S84(97)]
26	Hmga2	high mobility group protein HMGI-C	S104(99.9)]
27	Hirip3	HIRA-interacting protein 3	S205(100); S207(100); S208(100)]
28	Fip1l1	PREDICTED: pre-mRNA 3'-end-processing factor FIP1 isoform X1	S502(100)]
29	Ythdc1	PREDICTED: YTH domain-containing protein 1 isoform X1	S528(100)]
30	Lrrc47	leucine-rich repeat-containing protein 47	S430(100)]
31	Casc3	protein CASC3	S145(100)]
32	Rbm17	splicing factor 45	S155(100)]
33	Gigyf2	PERQ amino acid-rich with GYF domain-containing protein 2 isoform b	S237(100)]; 159032016 1xPhospho
34	Stim1	PREDICTED: stromal interaction molecule 1 isoform X2	S550(100)]
35	Map2	PREDICTED: microtubule-associated protein 2 isoform X1	S1814(96.6); S1819(98.3); S1822(100); S/T]
36	Chchd6	MICOS complex subunit Mic25 isoform 1	S164(100)]
37	Dnaja2	dnaJ homolog subfamily A member 2	S394(99.6); S395(99.6)]
38	Ppfia1	PREDICTED: liprin-alpha-1 isoform X1	S797(98.8)]
39	Srrm1	serine/arginine repetitive matrix protein 1 isoform 1	T600(100); S602(100)]
40	Tjp2	PREDICTED: tight junction protein ZO-2 isoform X1	S188(100)]
41	Map4	PREDICTED: microtubule-associated protein 4 isoform X1	S1250(98.3)]
42	Nedd4l	PREDICTED: E3 ubiquitin-protein ligase NEDD4-like isoform X1	S502(100)]
43	Larp7	la-related protein 7	S253(99.9); S256(99.9)]
44	Pum2	pumilio homolog 2 isoform 1	S177(100); S181(100)]
45	Rrbp1	ribosome-binding protein 1 isoform a	S625(98.8)]
46	Srrm2	PREDICTED: serine/arginine repetitive matrix protein 2 isoform X1	S2681(99)]
47	Bin1	myc box-dependent-interacting protein 1 isoform 1	S332(98.1); S/T]