

Figure S1. HDAC inhibitors differentially regulate HDAC expression in WERI-Rb1 cells. WERI-Rb1 cells were treated with 500 nM TSA, 20 μ M SAHA, 20 mM VPA or 10 μ M MS-275 for 6 h. Reverse transcription-quantitative PCR analysis indicated that compared with the control, HDAC mRNA expression was altered to various levels by these HDAC inhibitors. All results were confirmed in three independent experiments. *P<0.05 vs. respective control. HDAC, histone deacetylase; TSA, trichostatin A; SAHA, vorinostat; VPA, valproic acid sodium salt; MS-275, entinostat.

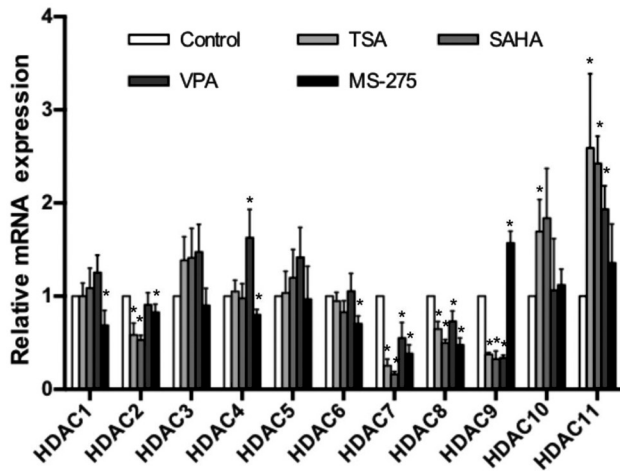


Table SI. Sequences of primers.

Gene	Sequence
β -actin	F: 5'-CACCACACCTTCTACAATGAG-3' R: 5'-TAGCACAGCCTGGATAGCAAC-3'
c-Myc	F: 5'-AGAGTCTGGATCACCTTCTGCT-3' R: 5'-ACACTGTCCAACCTTGACCCTCT-3'
HDAC1	F: 5'-ACTACGACGGGGATGTTGGA-3' R: 5'-TCCTCAGCATTGGCTTTGTG-3'
HDAC2	F: 5'-AAACTGCATATTAGTCCTTCAA-3' R: 5'-TGAGGTAACATGCGCAAATTTT-3'
HDAC3	F: 5'-TACGGAGCTGGACACCCTAT-3' R: 5'-TGTAGTCCTCGGAGTGGAAG-3'
HDAC4	F: 5'-GGTTTGAGAGCAGGCAGAAC-3' R: 5'-CAGAGAATGAGGCCAAGGAG-3'
HDAC5	F: 5'-GCCAGCACTGAGGTAAAGCTG-3' R: 5'-CTCTGGTCCAAAGAAGCATGG-3'
HDAC6	F: 5'-CATTAGGCCTCCTGGACATCA-3' R: 5'-CGGTGTTTCTGTTGAGCATAG-3'
HDAC7	F: 5'-TGTCTGCTGGATTTGATGC-3' R: 5'-TGAGGTTGGGTTTCTGTTT-3'
HDAC8	F: 5'-CAATGATGCTGTCCTGGGAAT-3' R: 5'-GGAGAATTTGTGCAGGGACAC-3'
HDAC9	F: 5'-TGGGCCAACTGGAAGTGTTAC-3' R: 5'-GTTGGGCAAAGAAGGAGAGGT-3'
HDAC10	F: 5'-ACCCAGCGTCCTTTACTTC-3' R: 5'-GTAGTCAGCGTTTCCCATCC-3'
HDAC11	F: 5'-GGATGTCTACAACCGCCACAT-3' R: 5'-GTGCTCCTGGAGGGATTTCTT-3'

F, forward; R, reverse; HDAC, histone deacetylase.

Table SII. Relative HDAC mRNA expression in WERI-Rb1 cells treated with HDAC inhibitors analyzed by reverse transcription-quantitative PCR.

HDAC	TSA	SAHA	VPA	MS-275
HDAC1	1.003±0.137	1.090±0.212	1.255±0.188	0.689±0.160 ^a
HDAC2	0.584±0.127 ^a	0.532±0.051 ^a	0.909±0.130	0.829±0.087 ^a
HDAC3	1.385±0.252	1.411±0.317	1.476±0.294	0.902±0.183
HDAC4	1.051±0.120	0.979±0.156	1.630±0.302 ^a	0.801±0.056 ^a
HDAC5	1.034±0.233	1.198±0.304	1.418±0.319	0.969±0.352
HDAC6	0.949±0.091	0.829±0.124 ^a	1.055±0.189	0.706±0.083 ^a
HDAC7	0.254±0.070 ^a	0.162±0.031 ^a	0.551±0.168 ^a	0.383±0.096 ^a
HDAC8	0.649±0.081 ^a	0.498±0.037 ^a	0.732±0.109 ^a	0.480±0.072 ^a
HDAC9	0.375±0.021 ^a	0.326±0.087 ^a	0.338±0.031 ^a	1.572±0.125 ^a
HDAC10	1.695±0.343 ^a	1.840±0.531	1.065±0.553	1.122±0.169
HDAC11	2.592±0.795 ^a	2.426±0.293 ^a	1.933±0.253 ^a	1.358±0.416

Data represent the means ± standard deviation, n=3. ^aP<0.05 vs. control (relative HDAC mRNA expression: Control, 1). HDAC, histone deacetylase; TSA, trichostatin A; SAHA, vorinostat; VPA, valproic acid sodium salt; MS-275, entinostat.