

Supplementary Table S2. D-2HG in cell line lysates.

Cell line	Description	IDH1 Genotype	D-2HG (mg/g) ^a
IMA	Parental IMA cell line	IDH1 ^{R132H/WT}	9.5 ± 1.4
IMA-KO-1	IMA with wild-type IDH1 knocked out, clone 1	IDH1 ^{R132H/-}	0.087 ± 0.014
IMA-KO-2	IMA with wild-type IDH1 knocked out, clone 2	IDH1 ^{R132H/-}	0.13 ± 0.08
IMA-KO-1-EV	KO-1 with homologous expression vector control	IDH1 ^{R132H/-} + vector	0.15 ± 0.03
IMA-KO-1-IDH1	KO-1 with wild type IDH1 homologous expression	IDH1 ^{R132H/-} + IDH1 ^{WT}	7.9 ± 0.9
IMA-KO-1-IDH1-R132H	KO-1 with mutant IDH1 homologous expression	IDH1 ^{R132H/-} + IDH1 ^{R132H}	1.5 ± 0.2
HOG	IDH1 wild type glioma cell line	IDH1 ^{WT/WT}	0.12 ± 0.01
293	IDH1 wild type embryonic kidney cell line	IDH1 ^{WT/WT}	0.068 ± 0.051
HCT116	IDH1 wild type colorectal cancer cell line	IDH1 ^{WT/WT}	0.035 ± 0.004
HCT116-KI-1	HCT116 with mutant IDH1 knockin	IDH1 ^{R132H/WT}	4.2 ± 1.0
HCT116-ATCC	HCT116 line from ATCC collection	IDH1 ^{WT/WT}	0.0098 ± 0.0020
KI-166-1	Mutant IDH1 knockin derived from HCT116-ATCC	IDH1 ^{R132H/WT} (only expresses IDH1 ^{R132H})	0.010 ± 0.002

^aMean ± s.d. from LC-MS/MS quantification of D-2HG in n=3 cell lysate samples, normalized to total protein in the lysate sample.