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Product datasheet for LY300206

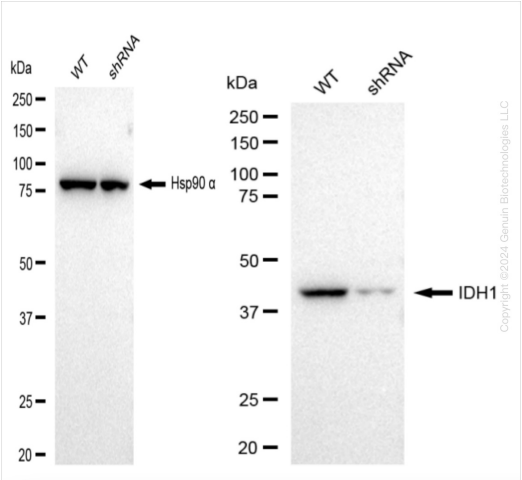
Isocitrate dehydrogenase (IDH1) Human Knockdown Lysate

Product data:

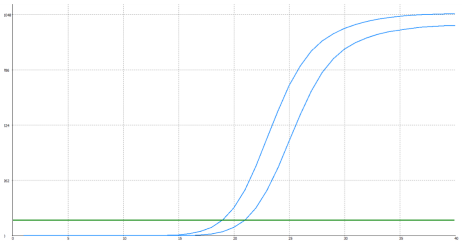
Product Type:	Knockdown Lysates
Description:	WB-validated IDH1 Knockdown HeLa Cell Lysate
Species:	Human
Expression Host:	HeLa
Tag:	Tag Free
Synonyms:	IDH1; Isocitrate Dehydrogenase (NADP(+)) 1; Isocitrate Dehydrogenase (NADP(+)) 1, Cytosolic; Isocitrate Dehydrogenase 1 (NADP+), Soluble; Isocitrate Dehydrogenase [NADP] Cytoplasmic; Oxalosuccinate Decarboxylase; NADP(+)-Specific ICDH; EC 1.1.1.42; PICD; IDH; NADP-Dependent Isocitrate Dehydrogenase, Peroxisomal; NADP-Dependent Isocitrate Dehydrogenase, Cytosolic; Epididymis Secretory Sperm Binding Protein; Cytosolic NADP-Isocitrate Dehydrogenase; Isocitrate Dehydrogenase 1 (NADP+); Epididymis Secretory Protein Li 26; Epididymis Luminal Protein 216; HEL-S-26; HEL-216; IDCD; IDPC; IDPc; IDP
Predicted MW:	47 kDa
Components:	1 vial of 100 ug WT HeLa cell lysate 1 vial of 100 ug IDH1 KD HeLa cell lysate
Storage:	Store at -20 ℃ for two years.
Concentration:	Lot-specific
Buffer:	IntactProtein Cell-Tissue Lysis buffer
Locus ID:	3417
UniProt ID:	O75874
Protein Pathways:	Citrate cycle (TCA cycle), Glutathione metabolism, Metabolic pathways

View online »

Product images:



Western blotting analysis. IDH1 protein expression in wild-type (WT) and shRNA knockdown (KD) HeLa cells was detected using Western blotting. Hsp90 α served as a loading control. The blots were incubated with primary antibodies (Cat#61181, 1:5,000) against IDH1 and Hsp90 α, respectively, followed by incubating with HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000). Images were developed using FeQ™ ECL Substrate Kit (Cat#226).



Genotype	Ct Value
Wild-Type	19.00
Knock-Down	20.91
ΔCt (Ct_{KD}-Ct_{WT})	1.91
% mRNA Reduction	⬇ 73%

RT-qPCR analysis. HeLa cells were infected with IDH1-specific shRNA lentiviral particles, total RNA was extracted from wild-type and knockdown cells, RT-qPCR was performed using gene-specific primers. ΔCt (CtKD-CtWT) was used to calculate mRNA reduction (%) between wild-type and knockdown cells using the following formula: (1-1/2ΔCt) x 100%.