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HDAC1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM01778

Basic Information

Catalog No.
RM01778

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
HDAC1

Species
Human

Gene ID
3065

Swiss Prot
Q13547

Synonyms
GON-10; HD1; RPD3; RPD3L1

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Background

Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis. [provided by RefSeq, Jul 2008]

Product Information

Description
HDAC1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:49bp deletion in exon2
Allele-2:49bp deletion in exon2
Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging
1 vial parental cell Lysate and 1 vial knockout cell Lysate

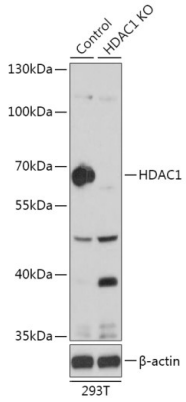
Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Store at -20℃

Protocol
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

WB data



Western blot analysis of extracts from parental (control) and HDAC1 knockout (KO) 293T cells, using HDAC1 antibody at 1:1000 dilution.

Sequencing data

WT ACCCAATGAAGCCT**********TGGAAATCTATGTG
Mut ACCCAATGAAGCCT***Deletion***TGGAAATCTATGTG
Allele-1: 49bp deletion in exon2

WT ACCCAATGAAGCCT**********TGGAAATCTATGTG
Mut ACCCAATGAAGCCT***Deletion***TGGAAATCTATGTG
Allele-2: 49bp deletion in exon2

Genome sequence analysis of PCR products from parental (Control) and HDAC1 knockout (KO) 293T cells, using sanger sequencing.