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HDAC1 Knockdown 293F Cell Lysate, Heterozygous

Catalog No.: RM50150

Basic Information

Catalog No.
RM50150

Category
Cell Lysate

Parental Cell line
293F

Genotype
Knockdown

Gene Information

Gene Symbol
HDAC1

Species
Human

Gene ID
3065

Swiss Prot
Q13547

Synonyms
HD1; RPD3; KDAC1; GON-10; RPD3L1; C1

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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.

Product Information

Description
HDAC1 Knockdown cell line is engineered from 293F cell line with Gene-Editing Technology.
Allele-1:66bp deletion in exon2
Allele-2:44bp 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.

Sequencing data

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WT    CAAGGCCACCCAAT**********AATCTATGTGAGTT
Mut   CAAGGCCACCCAAT***Deletion***AATCTATGTGAGTT
AIlele-1:   66bp deletion in exon2

WT    CCCAATGAAGCCTC**********TACCGAAAAATGGA
Mut   CCCAATGAAGCCTC***Deletion***TACCGAAAAATGGA
AIlele-2:   44bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and HDAC1 knockdown (KD) 293F cells, using sanger sequencing.

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