

# 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

## Contact

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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°C

**Amount**

50μL, 2μg/μL.

**Storage**

Lysate is stable for 12 months when stored at -20°C. Minimizing freeze-thaw cycles.

**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 CAAGGCCACCAAT\*\*\*\*\*AATCTATGTGAGTT  
Mut CAAGGCCACCAAT\*\*\*Deletion\*\*\*AATCTATGTGAGTT  
Allele-1: 66bp deletion in exon2

WT CCCAATGAAGCCTC\*\*\*\*\*TACCGAAAAATGGA  
Mut CCCAATGAAGCCTC\*\*\*Deletion\*\*\*TACCGAAAAATGGA  
Allele-2: 44bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and HDAC1 knockdown (KD) 293F cells, using sanger sequencing.