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HDAC1 Knockdown 293F Cell Line, Heterozygous

Catalog No.: RM50131

Basic Information

Catalog No.
RM50131

Category
Cell Line

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 line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial.

Storage
Stored in liquid nitrogen for a long time less than -130℃. Minimizing freeze-thaw cycles.

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.

1. Thaw the vial in 37℃ water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

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.