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ENO1 Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM01838

Basic Information

Catalog No.
RM01838

Category
Cell Line

Parental Cell line
HeLa

Genotype
Knockdown

Gene Information

Gene Symbol
ENO1

Species
Human

Gene ID
2023

Swiss Prot
P06733

Synonyms
ENO1L1; HEL-S-17; MPB1; NNE; PPH

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Background

This gene encodes alpha-enolase, one of three enolase isoenzymes found in mammals. Each isoenzyme is a homodimer composed of 2 alpha, 2 gamma, or 2 beta subunits, and functions as a glycolytic enzyme. Alpha-enolase in addition, functions as a structural lens protein (tau-crystallin) in the monomeric form. Alternative splicing of this gene results in a shorter isoform that has been shown to bind to the c-myc promoter and function as a tumor suppressor. Several pseudogenes have been identified, including one on the long arm of chromosome 1. Alpha-enolase has also been identified as an autoantigen in Hashimoto encephalopathy.

Product Information

Description
ENO1 Knockdown HeLa cell line is engineered from HeLa cell line with Gene-Editing Technology.
Allele-1:WT
Allele-2:exon3 was deleted
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
Store at -20℃

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.

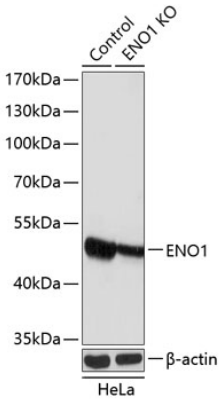
Sequencing data

WT CAGTGGTTCTCTCT**********TAATGCCACCAGAG
Mut CAGTGGTTCTCTCT**********TAATGCCACCAGAG
Allele-1: WT

WT CGCGTCGGCCTCAA**********TCCCAGGCCCAGGG
Mut CGCGTCGGCCTCAA***Deletion***TCCCAGGCCCAGGG
Allele-2: exon3 was deleted

Genome sequence analysis of PCR products from parental (WT) and ENO1 Knockdown (KD) HeLa cells, using sanger sequencing.

WB data



Western blot analysis of extracts from parental (Control) and ENO1 knockdown (KD) HeLa cells, using ENO1 antibody at 1:3000 dilution.