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ENO1 Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM01776

Basic Information

Catalog No.
RM01776

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockdown

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. [provided by RefSeq, Jan 2011]

Gene Information

Species
Human

Gene ID
2023

Swiss Prot
P06733

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

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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 Lysate and 1 vial knockout cell Lysate

Shipping Conditions
4℃

Amount
50μL, 2μg/μL.

Storage
Lysate is stable for 12 months when stored at -20℃. 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

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.