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IMPDH1 Knockout NIH/3T3 cell lysate, Homozygous

Catalog No.: RM50178

Basic Information

Catalog No.
RM50178

Category
Cell Lysate

Parental Cell line
NIH/3T3

Genotype
Knockout

Background

Enables IMP dehydrogenase activity. Involved in 'de novo' XMP biosynthetic process and GMP biosynthetic process. Acts upstream of or within lymphocyte proliferation and purine nucleotide biosynthetic process. Predicted to be located in cytosol and nucleus. Predicted to be active in cytoplasm. Is expressed in central nervous system and retina outer nuclear layer. Human ortholog(s) of this gene implicated in Leber congenital amaurosis 11; retinitis pigmentosa; and retinitis pigmentosa 10. Orthologous to human IMPDH1 (inosine monophosphate dehydrogenase 1).

Gene Information

Gene Symbol
IMPDH1

Species
Mouse

Gene ID
23917

Swiss Prot
P20839

Synonyms
IMPDH-I; B930086D20Rik

Product Information

Description
IMPDH1 Knockout cell line is engineered from NIH/3T3 cell line with Gene-Editing Technology.
Allele-1:67bp deletion in exon1
Allele-2:67bp deletion in exon1
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.

Contact

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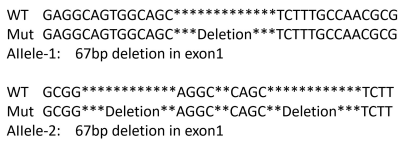
Sequencing data



Genome sequence analysis of PCR products from parental (WT) and IMPDH1 knockout (KO) NIH/3T3 cells, using sanger sequencing.