

MB21D1 Knockdown HeLa Cell Lysate, Heterozygous

Catalog No.: RM50148

Basic Information

Catalog No.

RM50148

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockdown

Gene Information

Gene Symbol

MB21D1

Species

Human

Gene ID

115004

Swiss Prot

Q8N884

Synonyms

MB21D1; h-cGAS; C6orf150; cGAS

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Background

Enables several functions, including 2',3'-cyclic GMP-AMP synthase activity; chromatin binding activity; and phosphatidylinositol-4,5-bisphosphate binding activity. Involved in several processes, including cellular response to exogenous dsRNA; positive regulation of intracellular signal transduction; and regulation of defense response. Located in several cellular components, including cytosol; nucleus; and site of double-strand break.

Product Information

Description

MB21D1 Knockdown cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:132bp deletion in exon1

Allele-2:125bp 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°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

WT GAATGCCAGGGGCG*****TCCGCGCAACTGGG
Mut GAATGCCAGGGGCG***Deletion***TCCGCGCAACTGGG
Allele-1: 132bp deletion in exon1

WT CAGGGGCGCCCGA*****GTCCGCGCAACTGG
Mut CAGGGGCGCCCGA***Deletion***GTCCGCGCAACTGG
Allele-2: 125bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and MB21D1 knockdown (KD) HeLa cells, using sanger sequencing.