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MGAT1 with GNT1 Knockout 293F Cell Lysate, Homozygous

Catalog No.: RM02769

Basic Information

Catalog No.
RM02769

Category
Cell Lysate

Parental Cell line
293F

Genotype
Knockout

Background

There are believed to be over 100 different glycosyltransferases involved in the synthesis of protein-bound and lipid-bound oligosaccharides. UDP-N-acetylglucosamine:alpha-3-D-mannoside beta-1,2-N-acetylglucosaminyltransferase I is a medial-Golgi enzyme essential for the synthesis of hybrid and complex N-glycans. The protein, encoded by a single exon, shows typical features of a type II transmembrane protein. The protein is believed to be essential for normal embryogenesis. Several variants encoding the same protein have been found for this gene.

Gene Information

Gene Symbol
MGAT1,GNT1

Species
Human

Gene ID
4245

Swiss Prot
P26572

Synonyms
GnTI; MGAT; GLCT1; GLYT1; GNT-1; GNT-I; GLCNAC-TI; MGAT1

Product Information

Description
MGAT1,GNT1 Knockout cell line is engineered from 293F cell line with Gene-Editing Technology.
Allele-1:exon3 was deleted□Allele-2:85bp deletion in exon3(GNT1)
Allele-1:53bp deletion in exon1,Allele-2:52bp deletion in exon1(MGAT1)
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

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WT   TTTGCCCCTCCCAG**********GTCAAACCAGGGTC
Mut  TTTGCCCCTCCCAG***Deletion***GTCAAACCAGGGTC
Allele-1:   exon3 was deleted(GNT1)
WT   GCCCCTCCCAGGTC**********AAACCAGGGTCAAA
Mut  GCCCCTCCCAGGTC***Deletion***AAACCAGGGTCAAA
Allele-2:   85bp deletion in exon3(GNT1)

WT   CAGTCAGCGCTCTC**********CGAGGTGGAGCTGG
Mut  CAGTCAGCGCTCTC***Deletion***CGAGGTGGAGCTGG
Allele-1:   53bp deletion in exon1(MGAT1)
WT   TCAGTCAGCGCTCT**********GCCGAGGTGGAGCT
Mut  TCAGTCAGCGCTCT***Deletion***GCCGAGGTGGAGCT
Allele-2:   52bp deletion in exon1(MGAT1)
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Genome sequence analysis of PCR products from parental (WT) and MGAT1 with GNT1 knockout (KO) 293F cells, using sanger sequencing.