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CD1A Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02782

Basic Information

Catalog No.
RM02782

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a member of the CD1 family of transmembrane glycoproteins, which are structurally related to the major histocompatibility complex (MHC) proteins and form heterodimers with beta-2-microglobulin. The CD1 proteins mediate the presentation of primarily lipid and glycolipid antigens of self or microbial origin to T cells. The human genome contains five CD1 family genes organized in a cluster on chromosome 1. The CD1 family members are thought to differ in their cellular localization and specificity for particular lipid ligands. The protein encoded by this gene localizes to the plasma membrane and to recycling vesicles of the early endocytic system. Alternative splicing results in multiple transcript variants.

Gene Information

Gene Symbol
CD1A

Species
Human

Gene ID
909

Swiss Prot
P06126

Synonyms
R4; T6; CD1; FCB6; HTA1; CD1A

Product Information

Description
CD1A Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:112bp deletion in exon2
Allele-2:112bp deletion in exon2
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
Store at -20℃

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    ATTTGCAGACTCAT**********GGTCATTTGAGGGA
Mut   ATTTGCAGACTCAT***Deletion***GGTCATTTGAGGGA
Allele-1:   112bp deletion in exon2

WT    ATTTGCAGACTCAT**********GGTCATTTGAGGGA
Mut   ATTTGCAGACTCAT***Deletion***GGTCATTTGAGGGA
Allele-2:   112bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and CD1A knockout (KO) 293T cells, using sanger sequencing.

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