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OCLN Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50020

Basic Information

Catalog No.
RM50020

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes an integral membrane protein that is required for cytokine-induced regulation of the tight junction paracellular permeability barrier. Mutations in this gene are thought to be a cause of band-like calcification with simplified gyration and polymicrogyria (BLC-PMG), an autosomal recessive neurologic disorder that is also known as pseudo-TORCH syndrome. Alternative splicing results in multiple transcript variants. A related pseudogene is present 1.5 Mb downstream on the q arm of chromosome 5.

Gene Information

Gene Symbol
OCLN

Species
Human

Gene ID
100506658

Swiss Prot
Q16625

Synonyms
BLCPMG; PTORCH1; PPP1R115; Occludin

Product Information

Description
OCLN Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:125bp deletion in exon1
Allele-2:131bp 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
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    GGGGTTCATGATTA**********GAGTGGGTAAGTGT
Mut   GGGGTTCATGATTA***Deletion***GAGTGGGTAAGTGT
Allele-1:   125bp deletion in exon1

WT    GGGGTTCATGATTA**********TAAGTGTTAAAAAA
Mut   GGGGTTCATGATTA***Deletion***TAAGTGTTAAAAAA
Allele-2:   131bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and OCLN knockout (KO) 293T cells, using sanger sequencing.