

CHIT1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50017

Basic Information

Catalog No.

RM50017

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

CHIT1

Species

Human

Gene ID

1118


Swiss Prot

Q13231

Synonyms

CHI3; CHIT; CHITD; CHIT1

Contact

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Background

Chitotriosidase is secreted by activated human macrophages and is markedly elevated in plasma of Gaucher disease patients. The expression of chitotriosidase occurs only at a late stage of differentiation of monocytes to activated macrophages in culture. Human macrophages can synthesize a functional chitotriosidase, a highly conserved enzyme with a strongly regulated expression. This enzyme may play a role in the degradation of chitin-containing pathogens. Several alternatively spliced transcript variants have been described for this gene.

Product Information

Description

CHIT1 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:110bp deletion in exon4

Allele-2:110bp deletion in exon4

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 TATGGTAGCCACGG*****GTAGACAAGGAGC
Mut TATGGTAGCCACGG***Deletion***GTAGACAAGGAGC
Allele-1: 110bp deletion in exon4

Genome sequence analysis of PCR products from parental (WT) and CHIT1 knockout (KO) 293T cells, using sanger sequencing.

WT TATGGTAGCCACGG*****GTAGACAAGGAGC
Mut TATGGTAGCCACGG***Deletion***GTAGACAAGGAGC
Allele-2: 110bp deletion in exon4