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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

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

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℃

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.

Sequencing data

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

WT    TATGGTAGCCACGG**********GTAGACAAGGAGC
Mut   TATGGTAGCCACGG***Deletion***GTAGACAAGGAGC
Allele-2:   110bp deletion in exon4
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Genome sequence analysis of PCR products from parental (WT) and CHIT1 knockout (KO) 293T cells, using sanger sequencing.