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CSF3R Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM50021

Basic Information

Catalog No.
RM50021

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

The protein encoded by this gene is the receptor for colony stimulating factor 3, a cytokine that controls the production, differentiation, and function of granulocytes. The encoded protein, which is a member of the family of cytokine receptors, may also function in some cell surface adhesion or recognition processes. Alternatively spliced transcript variants have been described. Mutations in this gene are a cause of Kostmann syndrome, also known as severe congenital neutropenia.

Gene Information

Gene Symbol
CSF3R

Species
Human

Gene ID
1441

Swiss Prot
Q99062

Synonyms
SCN7; CD114; GCSFR; CSF3R

Product Information

Description
CSF3R Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:46bp deletion in exon1
Allele-2:46bp 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
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    GGACTGCGTGC********************GTTGTACCAGA
Mut   GGACTGCGTGC***Deletion(46bp)****GTTGTACCAGA
AIlele-1:  46bp deletion in exon4

WT     GGACTGCGTGC********************GTTGTACCAGA
Mut    GGACTGCGTGC***Deletion(46bp)****GTTGTACCAGA
AIlele-2:  46bp deletion in exon4
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Genome sequence analysis of PCR products from parental (WT) and CSF3R knockout (KO) 293T cells, using sanger sequencing.