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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


400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

## Sequencing data

```
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
```

Genome sequence analysis of PCR products from parental (WT) and CSF3R knockout (KO) 293T cells, using sanger sequencing.



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