

# IL12A Knockout 293T Cell Lysate, Homozygous

**Catalog No.:** RM02545

## Basic Information

### Catalog No.

RM02545

### Category

Cell Lysate

### Parental Cell line

293T

### Genotype

Knockout

## Gene Information

### Gene Symbol

IL12A

### Species

Human

### Gene ID

3592

### Swiss Prot

P29459

### Synonyms

CLMF; IL-12A; NFSK; NKSF1; P35

## Contact

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## Background

This gene encodes a subunit of a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This cytokine is required for the T-cell-independent induction of interferon (IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. The responses of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4. Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this cytokine in innate immunity. [provided by RefSeq, Jul 2008]

## Product Information

### Description

IL12A Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:49bp deletion in exon1

Allele-2:49bp 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°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

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WT GTCTGCATCCAGCG\*\*\*\*\*CGGAGGGGCGGCTG  
Mut GTCTGCATCCAGCG\*\*\*Deletion\*\*\*CGGAGGGGCGGCTG  
Allele-1: 49bp deletion in exon1

WT GTCTGCATCCAGCG\*\*\*\*\*CGGAGGGGCGGCTG  
Mut GTCTGCATCCAGCG\*\*\*Deletion\*\*\*CGGAGGGGCGGCTG  
Allele-2: 49bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and IL12A knockout (KO) 293T cells, using sanger sequencing.