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IL12A Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02545

Basic Information

Catalog No.
RM02545

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

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]

Gene Information

Gene Symbol
IL12A

Species
Human

Gene ID
3592

Swiss Prot
P29459

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

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℃

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.

Contact

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