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IL12B Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02554

Basic Information

Catalog No.
RM02554

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

Gene Information

Gene Symbol
IL12B

Species
Human

Gene ID
3593

Swiss Prot
P29460

Synonyms
CLMF; CLMF2; IL-12B; IMD28; IMD29; NKSF; NKSF2

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Background

This gene encodes a subunit of interleukin 12, a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. Interleukin 12 is a disulfide-linked heterodimer composed of the 40 kD cytokine receptor like subunit encoded by this gene, and a 35 kD subunit encoded by IL12A. This cytokine is expressed by activated macrophages that serve as an essential inducer of Th1 cells development. This cytokine has been found to be important for sustaining a sufficient number of memory/effector Th1 cells to mediate long-term protection to an intracellular pathogen. Overexpression of this gene was observed in the central nervous system of patients with multiple sclerosis (MS), suggesting a role of this cytokine in the pathogenesis of the disease. The promoter polymorphism of this gene has been reported to be associated with the severity of atopic and non-atopic asthma in children. [provided by RefSeq, Jul 2008]

Product Information

Description
IL12B Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:151bp deletion in exon2;Allele-2:151bp deletion in exon2
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    AGAATTGGATTGGT**********CACCTGTCACAAAG
Mut   AGAATTGGATTGGT***Deletion***CACCTGTCACAAAG
Allele-1:   151bp deletion in exon2

WT    AGAATTGGATTGGT**********CACCTGTCACAAAG
Mut   AGAATTGGATTGGT***Deletion***CACCTGTCACAAAG
Allele-2:   151bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and IL12B knockout (KO) HeLa cells, using sanger sequencing.