

IL6 Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM01980

Basic Information

Catalog No.

RM01980

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

IL6

Species

Human

Gene ID


3569

Swiss Prot

P05231

SynonymsBSF-2; BSF2; CDF; HGF; HSF; IFN-beta-2;
IFNB2; IL-6

Contact

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Background

This gene encodes a cytokine that functions in inflammation and the maturation of B cells. In addition, the encoded protein has been shown to be an endogenous pyrogen capable of inducing fever in people with autoimmune diseases or infections. The protein is primarily produced at sites of acute and chronic inflammation, where it is secreted into the serum and induces a transcriptional inflammatory response through interleukin 6 receptor, alpha. The functioning of this gene is implicated in a wide variety of inflammation-associated disease states, including susceptibility to diabetes mellitus and systemic juvenile rheumatoid arthritis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

Product Information

Description

IL6 Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.
Allele-1:10bp deletion in exon1
Allele-2:2bp insertion 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

WT CTGGCAGAAAACAA*****CCAAAGATGGCTGA
Mut CTGGCAGAAAACAA***Deletion***CCAAAGATGGCTGA
Allele-1: 10bp deletion in exon1

WT CTGGCAGAAAACAACCTGAAC- -CTTCAAAGATGGCTGA
Mut CTGGCAGAAAACAACCTGAACATCTTCAAAGATGGCTGA
Allele-2: 2bp insertion in exon1

Genome sequence analysis of PCR products from parental (WT) and IL6 knockout (KO) HeLa cells, using sanger sequencing.