

IL1A Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM02546

Basic Information

Catalog No.

RM02546

Category

Cell Lysate

Parental Cell line

HeLa

Genotype

Knockout

Gene Information

Gene Symbol

IL1A

Species

Human

Gene ID

3552

Swiss Prot

P01583

Synonyms

IL-1A; IL1; IL1-ALPHA; IL1F1

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Background

The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease. [provided by RefSeq, Jul 2008]

Product Information

Description

IL1A Knockout HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology. Allele-1:101bp deletion in exon3; Allele-2:1bp insertion in exon3. 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 TATGGCCCACTCCA*****GGAAGGTTCTGAAG
Mut TATGGCCCACTCCA***Deletion***GGAAGGTTCTGAAG
Allele-1: 101bp deletion in exon3

WT TAAGCTATGGCCCACTCCA TGAAGGCTGCATGGATCAA
Mut TAAGCTATGGCCCACTCCAATGAAGGCTGCATGGATCAA
Allele-2: 1bp insertion in exon3

Genome sequence analysis of PCR products from parental (WT) and IL1A knockout (KO) HeLa cells, using sanger sequencing.