

# IL1RN Knockout 293T Cell Lysate, Homozygous

**Catalog No.: RM50016**

## Basic Information

**Catalog No.**

RM50016

**Category**

Cell Lysate

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

IL1RN

**Species**

Human

**Gene ID**


3557

**Swiss Prot**

P18510

**Synonyms**DIRA; IRAP; IL1F3; IL1RA; MVCD4; IL-1RN;  
IL-1ra; IL-1ra3; ICIL-1RA

## Contact

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## Background

The protein encoded by this gene is a member of the interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses, particularly in the acute phase of infection and inflammation. This gene and five other closely related cytokine genes form a gene cluster spanning approximately 400 kb on chromosome 2. A polymorphism of this gene is reported to be associated with increased risk of osteoporotic fractures and gastric cancer. Several alternatively spliced transcript variants encoding distinct isoforms have been reported.

## Product Information

**Description**

IL1RN Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:80bp deletion in exon1

Allele-2:89bp 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 AACTCTGGGCCCG\*\*\*\*\*CTCTGGGAGAAAAT  
Mut AACTCTGGGCCCG\*\*\*Deletion\*\*\*CTCTGGGAGAAAAT  
Allele-1: 80bp deletion in exon1

WT AACTCTGGGCCCG\*\*\*\*\*AAAATCCAGCAAGA  
Mut AACTCTGGGCCCG\*\*\*Deletion\*\*\*AAAATCCAGCAAGA  
Allele-2: 89bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and IL1RN knockout (KO) 293T cells, using sanger sequencing.