

# IL7R Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50045

## Basic Information

### Catalog No.

RM50045

### Category

Cell Lysate

### Parental Cell line

HeLa

### Genotype

Knockout

## Gene Information

### Gene Symbol

IL7R

### Species

Human

### Gene ID

3575

### Swiss Prot

P16871

### Synonyms

ILRA; CD127; IL7RA; CDW127; IMD104;  
sIL-7R; Inc-IL7R; IL7Ralpha; IL-7Ralpha;  
IL-7R-alpha; CD127/IL7R

## Contact

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## Background

The protein encoded by this gene is a receptor for interleukin 7 (IL7). The function of this receptor requires the interleukin 2 receptor, gamma chain (IL2RG), which is a common gamma chain shared by the receptors of various cytokines, including interleukins 2, 4, 7, 9, and 15. This protein has been shown to play a critical role in V(D)J recombination during lymphocyte development. Defects in this gene may be associated with severe combined immunodeficiency (SCID). Alternatively spliced transcript variants have been found.

## Product Information

### Description

IL7R Knockout cell line is engineered from HeLa cell line with Gene-Editing Technology.

Allele-1:11bp deletion in exon2

Allele-2:2bp 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°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 TTCTCATGCTATAG\*\*\*\*\*TGAATGGATCGCAG  
Mut TTCTCATGCTATAG\*\*\*Deletion\*\*\*TGAATGGATCGCAG  
Allele-1: 11bp deletion in exon2

Genome sequence analysis of PCR products from parental (WT) and IL7R knockout (KO) HeLa cells, using sanger sequencing.

WT CTCATGCTATAGCC\*\*\*\*\*TTGGAAGTGAATGG  
Mut CTCATGCTATAGCC\*\*\*Deletion\*\*\*TTGGAAGTGAATGG  
Allele-2: 2bp deletion in exon2