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IL7R Knockout HeLa Cell Lysate, Homozygous

Catalog No.: RM50045

Basic Information

Catalog No.
RM50045

Category
Cell Lysate

Parental Cell line
HeLa

Genotype
Knockout

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.

Gene Information

Gene Symbol
IL7R

Species
Human

Gene ID
3575

Swiss Prot
P16871

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

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℃

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.

Contact

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Sequencing data

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WT    TTCTCATGCTATAG**********TGAATGGATCGCAG
Mut   TTCTCATGCTATAG***Deletion***TGAATGGATCGCAG
Allele-1:    11bp deletion in exon2

WT    CTCATGCTATAGCC**********TTGGAAGTGAATGG
Mut   CTCATGCTATAGCC***Deletion***TTGGAAGTGAATGG
Allele-2:    2bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and IL7R knockout (KO) HeLa cells, using sanger sequencing.

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