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PDCD1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02059

Basic Information

Catalog No.
RM02059

Category
Cell Lysate

Parental Cell line
293T

Genotype
Knockout

Background

This gene encodes a cell surface membrane protein of the immunoglobulin superfamily. This protein is expressed in pro-B-cells and is thought to play a role in their differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3 antibodies are injected and large numbers of thymocytes undergo apoptosis. Mice deficient for this gene bred on a BALB/c background developed dilated cardiomyopathy and died from congestive heart failure. These studies suggest that this gene product may also be important in T cell function and contribute to the prevention of autoimmune diseases. [provided by RefSeq, Jul 2008]

Gene Information

Gene Symbol
PDCD1

Species
Human

Gene ID
5133

Swiss Prot
Q15116

Synonyms
CD279; PD-1; PD1; SLEB2; hPD-1; hPD-l; hSLE1

Product Information

Description
PDCD1 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:131bp deletion in exon2
Allele-2:131bp 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    CAGCTTCTCCAACA**************GGGCGTGACTTCCA
Mut   CAGCTTCTCCAACA***Deletion***GGGCGTGACTTCCA
Allele-1：131bp deletion in exon2

WT    CAGCTTCTCCAACA**************GGGCGTGACTTCCA
Mut   CAGCTTCTCCAACA***Deletion***GGGCGTGACTTCCA
Allele-2：131bp deletion in exon2
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Genome sequence analysis of PCR products from parental (WT) and PDCD1 knockout (KO) 293T cells, using sanger sequencing.