

PDCD1 Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02059

Basic Information

Catalog No.

RM02059

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

PDCD1

Species

Human

Gene ID

5133

Swiss Prot

Q15116

Synonyms

CD279; PD-1; PD1; SLEB2; hPD-1; hPD-I; hSLE1

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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]

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°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 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

Genome sequence analysis of PCR products from parental (WT) and PDCD1 knockout (KO) 293T cells, using sanger sequencing.