

# PDL1 Knockout A549 Cell Lysate, Homozygous

Catalog No.: RM02314

## Basic Information

**Catalog No.**

RM02314

**Category**

Cell Lysate

**Parental Cell line**

A549

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

PDL1

**Species**

Human

**Gene ID**

29126

**Swiss Prot**

Q9NZQ7

**Synonyms**B7-H; B7H1; PD-L1; PDCD1L1;  
PDCD1LG1; PDL1

## Contact

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## Background

This gene encodes an immune inhibitory receptor ligand that is expressed by hematopoietic and non-hematopoietic cells, such as T cells and B cells and various types of tumor cells. The encoded protein is a type I transmembrane protein that has immunoglobulin V-like and C-like domains. Interaction of this ligand with its receptor inhibits T-cell activation and cytokine production. During infection or inflammation of normal tissue, this interaction is important for preventing autoimmunity by maintaining homeostasis of the immune response. In tumor microenvironments, this interaction provides an immune escape for tumor cells through cytotoxic T-cell inactivation. Expression of this gene in tumor cells is considered to be prognostic in many types of human malignancies, including colon cancer and renal cell carcinoma. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

## Product Information

**Description**

PDL1 Knockout A549 Cell Line is engineered from A549 cell line with Gene-Editing technology.

Allele-1:exon1 was deleted

Allele-2:exon1 was deleted

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 CGTGTTTCCATAA\*\*\*\*\*ATTAGGTTCTATAT  
Mut CGTGTTTCCATAA\*\*\*Deletion\*\*\*ATTAGGTTCTATAT  
Allele-1: exon1 was deleted  
WT CGTGTTTCCATAA\*\*\*\*\*ATTAGGTTCTATAT  
Mut CGTGTTTCCATAA\*\*\*Deletion\*\*\*ATTAGGTTCTATAT  
Allele-2: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and PDL1 knockout (KO) A549 cells, using sanger sequencing.