Leader in Biomolecular Solutions for Life Science

www.abclonal.com

PDL1 Knockout A549 Cell Lysate, Homozygous

Catalog No.: RM02314

Basic Information

Catalog No.
RM02314

Category
Cell Lysate

Parental Cell line
A549

Genotype
Knockout

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]

Gene Information

Gene Symbol
PDL1

Species
Human

Gene ID
29126

Swiss Prot
Q9NZQ7

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

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℃

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

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Sequencing data

```
WT    CGTGTTTTCCATAA**************ATTAGGTTCTATAT
Mut   CGTGTTTTCCATAA***Deletion***ATTAGGTTCTATAT
Allele-1: exon1 was deleted

WT    CGTGTTTTCCATAA**************ATTAGGTTCTATAT
Mut   CGTGTTTTCCATAA***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.

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.