

#### **Product Specification Sheet**

# Programmed cell death protein 1 ligand 2 (CD273) antibody

Cat # PDL12M-A Rabbit Anti-Mouse Programmed cell death 1 ligand 2 antibody SIZE: 100 ug
Cat # PDL12H-A Rabbit Anti-Human Programmed cell death 1 ligand 2 antibody SIZE: 100 ug

PD-L2 is involved in the costimulatory signal essential for T-cell proliferation and IFN gamma production in a PDCD1-independent manner. Interaction with PDCD1 inhibits T-cell proliferation by blocking cell cycle progression and cytokine production.

## Source of Antigen or Antibodies

Uniprot: PDL12M-A: Q9WUL5 PDL12H-A: Q9BQ51

Host: Rabbit

Clonality: Polyclonal

Purification: Ammonium sulfate followed by peptide affinity

purification

**Immunogen:** Mix of 2 synthetic peptides, one of from the extracellular and one from the cytoplasmic region of Human

or Mouse PD-L2

Species Reactivity: Mouse

**Cross reactivity:** The extracellular peptide (**PDL12M-A**) used as an immunogen exhibits 92% homology with Rat. 88% Horse, Sheep, and Bovine. 82% Dog, Cat, and Monkey.

The extracellular peptide (**PDL1H-A**) used as an immunogen exhibits 100% homology with non-human primates.

Subcellular Location: Plasma membrane

Alternative names: PD-1 Ligand 2. PD-L2. PDCD1 Ligand 2. Put markilla P7 PC CD273

2. Butyrophilin B7-DC. CD273

**Tissue specificity:** Expressed in immature and mature bone marrow-derived dendritic cells and splenic dendritic cells. Highly expressed in placenta and liver. Weakly expressed in the heart, spleen, thymus, and lymph nodes. Also expressed in some tumor cell lines of lymphoid origin.

**Recommended Secondary Antibody:** Goat anti-Rabbit IgG-HRP (**ADI cat#20320**)

**Negative Control:** Non-immune Rabbit IgG (**ADI cat# 20009-1**).

## Form & Storage of Antibodies

## □Affinity pure IgG Solution

Concentration: 0.5 mg/ml Volume: 200 µl

Supplied in PBS pH 7.4 + 0.1% BSA

\*Antibody can be made available carrier free or conjugated to HRP, Biotin, or FITC on request

## Lyophilized powder

Reconstitute powder in 200 µl distilled water to 0.5 mg/ml

#### Storage:

Short-term: 4°C for 1 month

**Long-term**: at  $-20^{\circ}$ C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple free/thaw cycles or store working, diluted solutions.

#### **Recommended Usage**

**ELISA:** Assay dependent concentration. Typically, 0.1-2.0 μg/ml for capture or detection antibody

Western Blotting: 0.5-1 μg/ml Observed Band size: ~31 kDa.

**IHC-P:** 1-10 μg/ml.

**Flow cytometry:** Not validated in-house. We suggest 0.1-0.5  $\mu$ g/10<sup>6</sup> cells in a final volume of 100  $\mu$ l.

\*Above concentrations are a suggestion and user's must optimize assay based on their conditions. Antibody may work in other applications such as ICC or IP. These methods have not been tested by ADI.

\*This product is for In vitro research use only.

#### Related materials available from ADI

Catalog# Description

PDL1H-A Rabbit Anti-Human Programmed cell death

1 Ligand 1 (PDL1/CD274) antibody

PDL1M-A Rabbit anti-Mouse Programmed cell death

1 Ligand 1 (PDL1/CD274) antibody

PDCD1-A Rabbit Anti-Human Programmed cell death

protein 1 (PDCD1) antibody

200-555-ATZ Atezolizumab/Tecentriq ELISA Kit, 96

tests, Quantitative

200-560-OPD Opdivo/Nivulomab ELISA Kit, 96 tests,

Quantitative

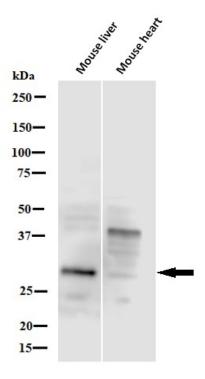
200-565-PBZ Keytruda/Pembrolizumab ELISA Kit, 96

tests, Quantitative

PDL12M-A 180902IA

**(800)** 786-5777; (210) 561-9515; **Fax**: (210) 561-9544; **Web Site**: www.4adi.com





 $20~\mu g$  of a Mouse liver and heart lysate were heated for 5 minutes at  $95^{\circ}\text{C}$  then separated on a 10%~SDS-PAGE gel. The gel was run for  $\sim\!\!1$  hour and 30~minutes at 100V and transferred to a  $0.2~\mu m$  nitrocellulose membrane using the 'Mixed MW' settings on a Transblot Turbo (Biorad). The blot was blocked for 1 hour at room temperature with Fish plasma (Aquablock, EastCoastBio). **PDL12M-A** was diluted with TBST+0.1% BSA to 1  $\mu g/ml$  and incubated overnight at  $4^{\circ}\text{C}$ . Blot was washed with TBS-T 3 times for 5 minutes each. Goat anti-rabbit IgG HRP (ADI cat#20320) diluted 1:10,000 (50 ng/ml) in TBST+0.1% BSA and incubated for 1 hour at room temperature. The blot was washed with TBS-T 3 times for 5 minutes each. The blot was incubated with ADI Femto ECL substrate (ADI cat#80210) for 5 minutes then imaged on a CCD imaging system (LI-COR, C-DIGIT). Specific band is observed at  $\sim\!\!31~\text{kDa}$ .