**Rabbit anti-human PD-L1 Monoclonal Antibody**
**Clone 7F2** **Catalog Number: R16003M7F2**

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Antibody Expert You Can Trust

## General Information

| | |
|---|---|
| **Immunogen** | recombinant human PD-L1 extracellular domain |
| **IgG type** | IgG |
| **Clonality** | Monoclonal |
| **Specificity** | Human PD-L1 |
| **Applications & dilution** | ELISA, WB, FC; Sandwich ELISA with R16003M8C6 |
| **Formulation** | PBS with 0.09% sodium azide, 50% glycerol, pH7.4. |
| **Purity** | ≥95% purity by SDS-PAGE |
| **Storage** | Store at -20°C. Avoid freeze / thaw cycles. |

**Abbreviation:**
ELISA: Enzyme-linked immunosorbent assay; ITA: immunoturbidimetric assay; IP: immunoprecipitation; IHC: immuno-histochemistry; IF: immunofluorescence. WB: western blot;nosorbent assay; FC: flow cytometry

## Background

Programmed death-ligand 1 (PD-L1) is a 40kDa type 1 transmembrane protein that suppresses immune system. PD-L1 is expressed in hematopoietic and non-hematopoietic cells including T cells and B cells and various types of tumor cells. PD-L1 binds to its receptor Programmed death 1 (PD1). During infection or inflammation, PD1-PD-L1 interaction is important for preventing autoimmunity. In tumor microenvironments, PD1-PD-L1 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 cancers. In recent years, PD-L1 has become an important biomarker and immunotherapy target for many types of malignancies.

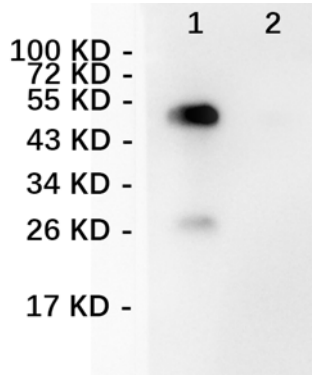
**For research use only**

## Preparation

Monoclonal antibody is produced by immunizing rabbit with recombinant human PD-L1 extracellular domain and purified using protein A resin.

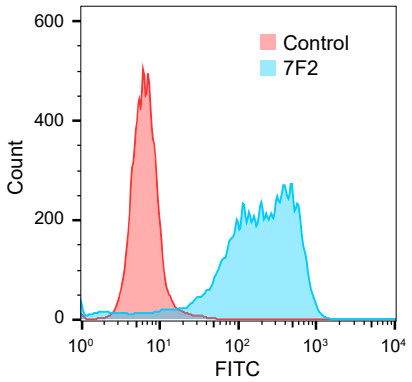
## Applications

***Western blot***




**Western blot analysis of cell lysates (1E5 cells/lane)**
Lane 1: full-length PD-L1 transfected 293T
Lane 2: non-transfected 293T
**Primary mAb:**
Clone 7F2: 1:1000 dilution
**Secondary Ab:**
Goat anti-rabbit IgG H+L HRP at 1:3000 dilution

***Flow cytometry***




**Flow cytometry: PD-L1 expressing 293F cells were stained with control IgG or clone 7F2.**

**Primary:**
**Clone 7F2**at 1:100 dilution

**Secondary:**
1:1000 goat anti-rabbit IgG FITC

## Storage

This antibody is shipped at 4 °C. This product is stable for 12 months from date of receipt when stored at -20 °C to -70 °C. Avoid freeze/thaw cycles.

## Hazard/Biohazard

This antibody contains 0.09% sodium azide as preservative. Please handle and dispose the product properly. No known biohazard is associated with this product.

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