



## Mouse anti PD-L1 Monoclonal Antibody

Alternative Name(s): nan

### Order Information

- **Description:** PD-L1 (B7-H1)
- **Catalogue:** 604-710
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** 29E.2A3.
- **Application:** IHC(P), FC
- **Reactivity:** Hu

### **ANTIGEN PREPARATION**

A recombinant protein of human PD-L1

### **BACKGROUND**

PD-L1 is a type I transmembrane protein of 290 amino acids, and it is a member of the B7 family. Human PD-L1 has 70% amino acid identity to its mouse orthologue. Binding of PD-L1 to its receptor PD-1 leads to the inhibition of T cell receptor-mediated lymphocyte proliferation and cytokine secretion. PD-L1 induces IL-10 production in T cells stimulated with low levels of anti-CD3. PD-L1/PD-1 interaction suppresses immune responses against autoantigens and tumors and plays an important role in the maintenance of peripheral immune tolerance. Disruption of the PD-L1 gene leads to up-regulated T cell responses and the generation of self-reactive T cells. Antibodies against PD-1 or PD-L1 leads to increased antitumor immunity. PD-L1 has an important role in conferring fetomaternal tolerance in an allogeneic pregnancy model; antibodies against PD-L1 lead to a breakdown in maternal tolerance to the fetus. PD-L1 shares its receptor with PD-L2 (CD273, B7-DC). PD-L2 has a more limited expression than PD-L1, being expressed on activated macrophages and dendritic cells. PD-L1 is expressed in many tumors, and the interaction with its receptor activates signaling pathways that inhibit T-cell activity and therefore the antitumor immune response. Antibodies targeting PD-1 or PD-L1 block the PD-1 pathway and reactivate T cell activity

### **PURIFICATION**

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes human PD-L1 (B7-H1) protein. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: 0.5-5 µg/10<sup>6</sup> cells
- Molecular Weight: 36.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

### **FOR RESEARCH USE ONLY.**

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA  
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). [www.abbomax.com](http://www.abbomax.com) [info@abbomax.com](mailto:info@abbomax.com)



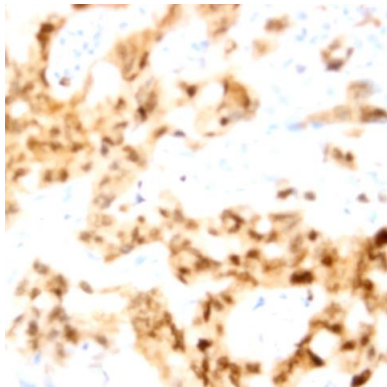
\*Optimal dilutions should be determined by researchers for the specific applications.

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## DATA ATTACHMENTS



Immunohistochemistry: Human breast carcinoma (FFPE) stained with Mouse anti-PD-L1 (Cat# 604-710) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

## REFERENCES

Freeman GJ, et al. 2000. J. Exp. Med. 192:1027.

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