

Rabbit anti-human PD-L1 Monoclonal Antibody
Clone 8C6 **Catalog Number: R16003M8C6**



General Information	
Immunogen	recombinant human PD-L1 extracellular domain
IgG type	IgG
Clonality	Monoclonal
Specificity	Human PD-L1
Applications & dilution	ELISA, WB, FC, Inhibition; Sandwich ELISA with R16003M7F2
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: immunohistochemistry; 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 8C6: 1:1000 dilution
Secondary:
 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 8C6.
Primary:
 Clone 8C6 at 1:100 dilution
Secondary:
 1:1000 goat anti-rabbit IgG FITC

Inhibition Assay

Inhibition Assay: 1ug/ml of biotinylated PD-L1 protein was incubated with rabbit anti-PD-L1 mAb (clone 8C6) or control mAb with serial dilution for 1 hour at RT. The mixture was added to ELISA plate coated with 1ug/ml of recombinant expressed PD-1. HRP-Streptavidin was used for biotinylated PD-L1 detection.

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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.

