

FITC Conjugated Anti-Mouse PD-L1 Antibody [PSH05-04] HA720213F



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse
Applications:	FC
Molecular Wt:	Predicted band size: 33 kDa
Clone number:	PSH05-04

Description: Programmed death-ligand 1 (PD-L1) also known as cluster of differentiation 274 (CD274) or B7 homolog 1 (B7-H1) is a protein that in humans is encoded by the CD274 gene. Programmed death-ligand 1 (PD-L1) is a 40kDa type 1 transmembrane protein that has been speculated to play a major role in suppressing the adaptive arm of immune systems during particular events such as pregnancy, tissue allografts, autoimmune disease and other disease states such as hepatitis. Normally the adaptive immune system reacts to antigens that are associated with immune system activation by exogenous or endogenous danger signals. In turn, clonal expansion of antigen-specific CD8+ T cells and/or CD4+ helper cells is propagated. The binding of PD-L1 to the inhibitory checkpoint molecule PD-1 transmits an inhibitory signal based on interaction with phosphatases (SHP-1 or SHP-2) via Immunoreceptor Tyrosine-Based Switch Motif (ITSM). This reduces the proliferation of antigen-specific T-cells in lymph nodes, while simultaneously reducing apoptosis in regulatory T cells (anti-inflammatory, suppressive T cells) – further mediated by a lower regulation of the gene Bcl-2.

Conjugate:	FITC-conjugated
Immunogen:	Recombinant protein within mouse PD-L1 aa 19-239 / 290.
Positive control:	RAW264.7 cells treated with 10µg/mL LPS for 8 hours.
Subcellular location:	Cell membrane, Early endosome membrane, Recycling endosome membrane.
Database links:	SwissProt: Q9EP73 Mouse
Recommended Dilutions:	
FC	5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Storage Buffer:	Supplied in phosphate-buffered solution, pH 7.2, containing 0.2% ProClean 950 and BSA.
Storage Instruction:	Store at 2°C to 8°C. Avoid repeated freeze / thaw cycles.
Purity:	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

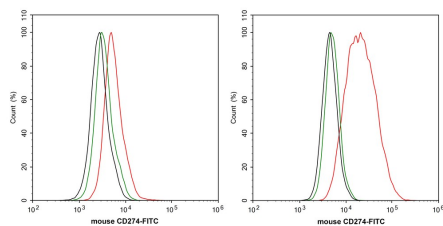


Fig1: Flow cytometric analysis of RAW264.7 cells treated with or without 10µg/mL LPS for 8 hours labeling Mouse PD-L1.

Cells were washed twice with cold PBS and resuspend. Then incubated for 1 hour at +4°C with Mouse PD-L1 (HA720213F, red, 1µg/mL) and Rabbit IgG Isotype Control (FITC, green, 1µg/mL). Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Lei Q et al. Resistance Mechanisms of Anti-PD1/PDL1 Therapy in Solid Tumors. *Front Cell Dev Biol.* 2020 Jul
2. Tran-Nguyen VK et al. Structure-based virtual screening for PDL1 dimerizers: Evaluating generic scoring functions. *Curr Res Struct Biol.* 2022 Jun

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