Biotin Conjugated Anti-Human PD-L1 Antibody [PSH15-37] - Detector

HA723742B

Product Type: Recombinant Rabbit monoclonal IgG, primary antibodies

Species reactivity: Human

Applications: ELISA(Det), ELISA

Clone number: PSH15-37

Description: PD-L1 (programmed-death ligand 1; CD274), is a transmembrane protein constitutionally

expressed on a variety of cell types, including antigen presenting cells (dendritic cells and histiocytes) and some non-lymphoid tissues (heart and lung). Binding of PD-L1 to PD-1 (programmed-death 1; CD279) expressed by activated T-cells, inhibits their function, causing negative feedback control of immunological reactions, thus impeding inflammation and autoimmunity. Tumour cells may express PD-L1, which binds to PD-1 allowing cancer cells to evade the attack of T-cells. Blockade of the PD-1/PD-L1 pathway has now shown useful in therapy of multiple cancer types, causing durable tumour regressions in a substantial proportion of otherwise treatment refractory cases of melanoma, and carcinomas of e.g., lung, kidney, and urinary tract. Patients without tumour PD-L1 expression can also derive benefit from blocking agents (studies across multiple cancer types demonstrate a pooled response rate of 48% in patients with PD-L1-positive tumours compared to 15% in PD-L1-negative tumours). Tonsil and placenta can be used as positive and negative tissue controls. However, tonsil is found to be superior to placenta, as tonsil displayes a range of PD-L1 expression levels. Tonsil displayes the following reaction pattern: No staining reaction in the vast majority of lymphocytes including mantle zone and germinal centre Bcells, no staining reaction in superficial epithelial cells, a weak to moderate, typically punctuated membranous staining reaction of the majority of germinal centre macrophages and finally a moderate to strong staining reaction of the majority of epithelial crypt cells.

Conjugate: Biotin-conjugated

Immunogen: Recombinant protein within Human PD-L1 aa 19-238 (HA210954).

Positive control: Recombinant Human PD-L1 protein (HA210954).

Subcellular location: Cell membrane, Early endosome membrane, Recycling endosome membrane, Nucleus.

Database links: SwissProt: Q9NZQ7 Human

Recommended Dilutions:

ELISA

ELISA(Det)Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit

monoclonal [PSH15-36] to Human PD-L1R antibody (Capture) (HA723740) and Recombinant Human PD-L1 protein (HA210954) as the standard. The reference range

value is 7.8-2.000 pg/mL.

Use at an assay dependent concentration.

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% ProClin300.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into

single-use upon delivery. Store at -20 °C long term.

Purity: Protein A affinity purified.

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2880 **Technical:**0086-571-89986345

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Images

Standard curve of Human PD-L1 matched pair antibodies

Fig1: Sandwich ELISA analysis of Human PD-L1 matched pair antibodies

Capture: HA723740, Human PD-L1 Rabbit mAb [PSH15-36] Detector: HA723741, Human PD-L1 Rabbit mAb [PSH15-37]

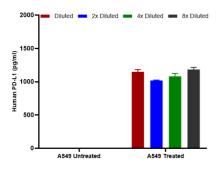


Fig2: Interpolated concentrations of native PD-L1 in A549 Cell extract samples based on a 1000 μ g/ml extract load.

Capture: HA723740, Human PD-L1 Rabbit mAb [PSH15-36] Detector: HA723741, Human PD-L1 Rabbit mAb [PSH15-37]

Interpolated concentration of native PD-L1 was measured in duplicate at different sample concentrations. The interpolated dilution factor corrected values were plotted (mean +/- SD, n=2). The mean PD-L1 concentration was determined to be 1108 pg/mL in A549 treated Cell extract and undetectable in A549 untreated Cell extract.

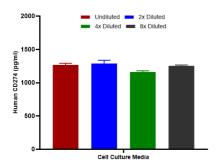


Fig3: Interpolated concentrations of spiked PD-L1 in cell culture media samples.

Capture: HA723740, Human PD-L1 Rabbit mAb [PSH15-36] Detector: HA723741, Human PD-L1 Rabbit mAb [PSH15-37]

The concentrations of PD-L1 were measured in duplicates, interpolated from the PD-L1 standard curves and corrected for sample dilution. Undiluted samples are as follows: cell culture media 50%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2).

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Background References

- 1. Yi M et al. Regulation of PD-L1 expression in the tumor microenvironment. J Hematol Oncol. 2021 Jan
- 2. Gou Q et al. PD-L1 degradation pathway and immunotherapy for cancer. Cell Death Dis. 2020 Nov