



Mouse Anti-Human Programmed Death Ligand-1 Monoclonal Antibody Datasheet

Product Name: mAb anti-Human PDL-1

Clone No.: 12B4

Catalogue No.: MO-L40044I

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody (mAb) to human programmed death ligand-1 (PDL-1), or mouse mAb to B7H1, or mouse mAb to human CD274.

Purification: Protein G affinity purified

Product Type: Primary antibody, **detection antibody** in matched antibody pair.

Target Protein: Human programmed death ligand-1 (PDL-1), also known as B7H1 or CD274.

Immunogen: Human cell expressed recombinant PDL-1 (Phe19-Arg238) with poly-histidine tag at C-terminus.

Fusion Myeloma: Sp2/0-Ag14

Specificity: Reactive with human programmed death ligand-1 (PDL-1).

Species Reactivity: Human, others not tested.

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.2

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

Storage: Store at -20°C. Avoid repeated freeze/thaw cycles after reconstitution.

Research Area: Immunosuppression. Cancer immunotherapy.

Background: Programmed Death Ligand-1 (PDL-1), a 40KD transmembrane protein, is a ligand of immune checkpoint protein Programmed Death-1 (PD-1). During T-cell receptor signalling, the binding of PDL-1 to PD-1 transmits an inhibitory signal to activated T-cells to decrease their proliferation. PDL-1 is also believed to play a role in the generation and regulation of Treg cells, and in the enhancement of Treg cell function. PDL-1/PD-1 pathway is important to immune suppression, such as self-tolerance, suppression of immune-rejection during pregnancy and allograft, and immune evasion by cancers. Upregulation of PD-L1 has been found to be associated with many cancer types. For example, increased PDL-1 expression has been shown to be related to tumor aggressiveness and higher mortality in patients with renal cell carcinoma, and related to significantly poorer prognosis and lower intraepithelial CD8+ T-lymphocyte count in patients with ovarian cancer. Antibodies that block the PDL-1 /PD-1 pathway have been extensively studied in clinical trials, and some have been approved as immunotherapy for cancer.

Application: **Sandwich ELISA:** Anti-PDL-1 clone 12B4, when conjugated with a tracer, and used in combination with clone 15G3 (Cat. NO.: MO-L40044N) coated plate, can detect human cell expressed PDL-1 in Sandwich ELISA application.

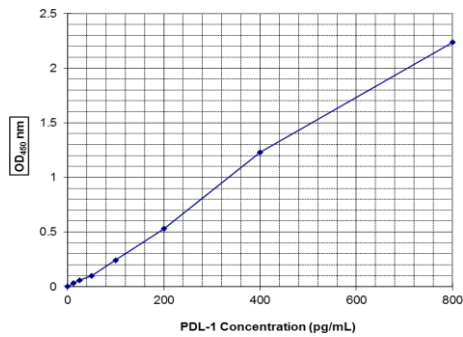
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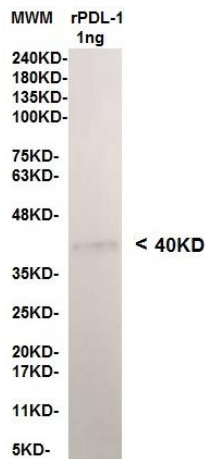


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Western Blot: Anti-PDL-1 clone 12B4 detected 1ng recombinant PDL-1 on Western Blot. The blot was stained with HRP substrate 4-Chloro-1-Naphthol.



References: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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