

Mouse anti-Human PDL1 Monoclonal Antibody | anti-PDL1 antibody

PDL1 Antibody [1D7]

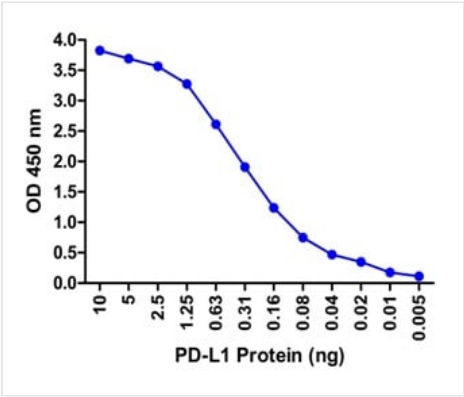
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA10995	Mouse	Human	ELISA, Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence

PRODUCT SYNONYMS

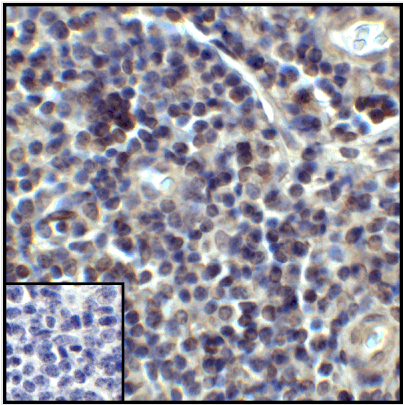
PDL1; Monoclonal Antibody; PDL1 Antibody [1D7]; Programmed cell death 1 ligand; Programmed cell death 1 ligand-1; programmed death ligand 1; PDL-1; B7-H1; anti-PDL1 antibody

PRODUCT SPECIFICATIONS

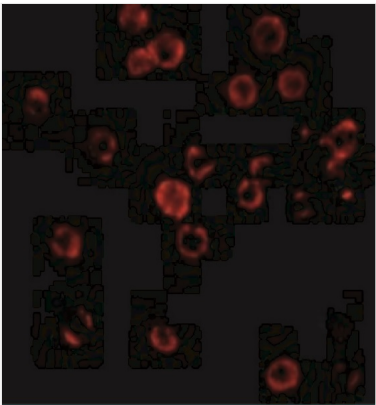
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	1D7
Purity/Purification	Protein A purified
Form/Format	Liquid Supplied in PBS containing 0.02% sodium azide.
Concentration	1 mg/mL (varies by lot)
Sequence Length	290
Applicable Applications for anti-PDL1 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence)
Application Notes	WB at 0.5-1 ug/mL IHC starting at 2-5 ug/mL IF start at 5ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Immunogen	PD-L1 antibody was raised against the extracellular domain of human PD-L1.
Conjugate	Unconjugated
Preparation and Storage	Store at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



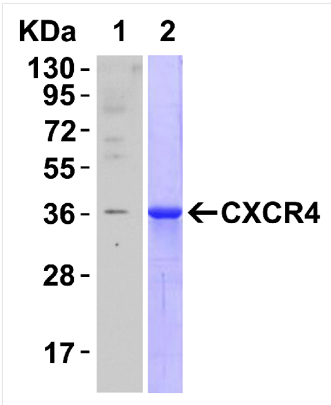
ELISA
A sandwich ELISA was performed using the anti-PD-L1 mAb (5 µg/ml) as the capture antibody. Biotin-labeled anti-PD-L1 mAb (1 µg/ml) and streptavidin-HRP (0.1 µg/ml) were used for detection. Detection range is from 10 ng to 20 pg.



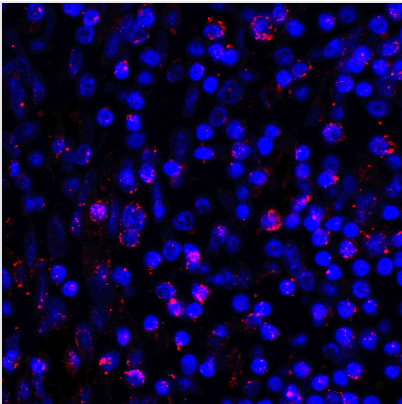
IHC (Immunohistochemistry)
Immunohistochemistry of PD-L1 in human tonsil tissue with PD-L1 antibody at 5 µg/mL.



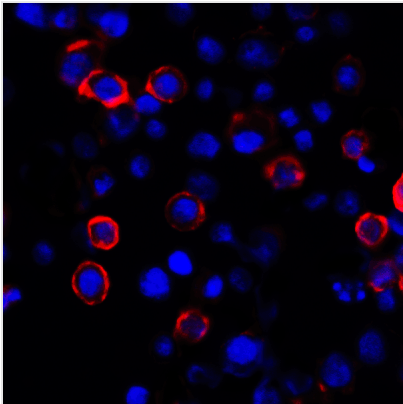
IHC (Immunohistochemistry)
Immunohistochemistry of PD-L1 in human stomach carcinoma tissue with PD-L1 antibody at 5 µg/mL.



IF (Immunofluorescence)
Immunofluorescence of PD-L1 in human tonsil tissue with PD-L1 antibody at 2 µg/mL. Red: PDL1 Antibody [1D7] Blue: DAPI staining



IF (Immunofluorescence)
Immunofluorescence of PD-L1 in human stomach carcinoma tissue with PD-L1 antibody at 2 µg/mL. Red: PDL1 Antibody [1D7] Blue: DAPI staining



IF (Immunofluorescence)
Immunofluorescence of PD-L1 in transfected HEK293 cells with PD-L1 antibody at 2 µg/mL. Red: PDL1 Antibody [1D7] Blue: DAPI staining

ADDITIONAL INFORMATION

Related Product Information for anti-PDL1 antibody	Cell-mediated immune responses are initiated by T lymphocytes that are themselves stimulated by cognate peptides bound to MHC molecules on antigen-presenting cells (APC) (1). T-cell activation is generally self-limited as activated T cells express receptors such as PD-1 (also known as PDCD-1) that mediate inhibitory signals from the APC (2). PD-1 can bind two different but related ligands, PD-L1 and PD-L2. PD-L1 is a B7-related protein that inhibits cell-mediated immune responses by reducing the secretion of IL-2 and IL-10 from memory T cells (3). This suggests that PD-L1 may be useful in reducing allogenic CD4+ memory T-cell responses to endothelial cells, thereby reducing the likelihood of host immune responses to allografts. PD-L1 also functions as an immune checkpoint protein, and multiple anti-PD-L1 antibodies are currently in phase II and III clinical trials, with one antibody already approved for the treatment of cancer (4).
Product Categories/Family for anti-PDL1 antibody	Immunology
References	Holling TM, Schooten E, and van Den Elsing PJ. Function and regulation of MHC class II molecules in T-lymphocytes: of mice and men. Hum. Immunol. 2004; 65:282-90. Ishida Y, Agata Y, Shibahara K, et al. Induced expression of PD-1, a novel member of the immunoglobulin gene superfamily, upon programmed cell death. EMBO J. 1992; 11:3887-95. LaGier J and Pober JS. Immune accessory functions of human endothelial cells are modulated by overexpression of B7-H1 (PDL1). Hum. Immunol. 2006; 67:568-78. Aydin AM, Woldu SL, Hutchinson RC, et al. Spotlight on atezolizumab and its potential in the treatment of advanced urothelial bladder cancer. Onco. Targets Ther. 2017;10:1487-502.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7661534
NCBI GeneID	29126
NCBI Accession #	NP_054862
NCBI GenBank Nucleotide #	NM_014143.3
UniProt Accession #	Q9NZQ7 ; Q14CJ2 ; Q2V8D5 ; Q66RK1 ; Q6WEX4 ; Q9NUZ5 ; B2RBA2 ; B4DU27
Molecular Weight	Predicted: 32 kDa Observed: 45 kDa
NCBI Official Full Name	programmed cell death 1 ligand 1 isoform a
NCBI Official Synonym Full Names	CD274 molecule
NCBI Official Symbol	CD274
NCBI Official Synonym Symbols	B7-H; B7H1; PDL1; PD-L1; PDCD1L1; PDCD1LG1
NCBI Protein Information	programmed cell death 1 ligand 1
UniProt Protein Name	Programmed cell death 1 ligand 1
UniProt Gene Name	CD274
UniProt Synonym Gene Names	B7-H1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/pdl1-antibody-clone-1d7-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-elisa/10995>