

Mouse anti-Human PD-L1 Monoclonal Antibody | anti-PD-L1 antibody

PD-L1 (Extracellular region) M051 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71680	Mouse	Human	Immunocytochemistry, Immunoprecipitation, ELISA, Western Blot

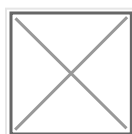
PRODUCT SYNONYMS

PD-L1; Monoclonal Antibody; PD-L1 (Extracellular region) M051 Antibody; PDL1 051; anti-PD-L1 antibody

PRODUCT SPECIFICATIONS

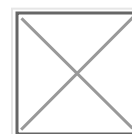
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M051
Specificity	Clone M051 mouse monoclonal antibody detects a 45-55kDa* protein on SDS-PAGE "Native" or denatured immunoblots of human recombinant PD-L1 extracellular region, and human lung tissue. The antibody works for western blot, immunoprecipitation, immunocytochemistry, and ELISA capture.
Purity/Purification	Protein A chromatography
Form/Format	Mouse monoclonal antibody purified with protein G chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-PD-L1 antibody	ICC (Immunocytochemistry), IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Clone (M051) was generated from a recombinant protein that included the extracellular region of human PD-L1 protein.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



Standard Curve (Sample)

Representative Standard Curve using mouse monoclonal anti-PD-L1 (PM0511) for ELISA capture of human recombinant PD-L1 extracellular region with a His-tag. Captured protein was detected by suitable anti-His-tag antibody followed by appropriate secondary antibody HRP conjugate.



ICC (Immunocytochemistry)

Immunocytochemical labeling of PD-L1 in aldehyde fixed human MDA-MB-231 carcinoma cells untreated (A) or treated with 100 ng/ml IFNgamma for 48 hrs (B). The cells were labeled with mouse monoclonal anti-PD-L1 (PM0511). The antibody was detected using goat anti-mouse DyLight 594.



WB (Western Blot)

Western blot of human recombinant PD-L1 extracellular region (40kDa; lanes 1 & 3) and endogenous PD-L1 in human lung (lanes 2 & 4). The blot was probed with mouse monoclonals anti-PD-L1 (PM0511) at 1:500 (lanes 1 & 2) and anti-PD-L1 (PM0801) at 1:250 (lanes 3 & 4).

ADDITIONAL INFORMATION

Related Product Information for anti-PD-L1 antibody	Programmed cell death 1 ligand 1 (PD-L1, B7-H1, CD274) is a member of the B7 family of cell surface ligands that regulate T cell activation and immune responses. The B7 family members have conserved regions that include extracellular IgV and IgC domains, and a short cytoplasmic region. Research studies demonstrate that PD-L1 is expressed in several tumor types, including melanoma, ovary, colon, lung, breast, and renal cell carcinomas. PD-L1 plays a critical role in induction and maintenance of immune tolerance to self. As a ligand for the inhibitory receptor PDCD1/PD-1, modulates the activation threshold of T-cells and limits T-cell effector response. The PDCD1-mediated inhibitory pathway is exploited by tumors to attenuate anti-tumor immunity and escape destruction by the immune system, which promotes tumor survival. The blockage of the PD1/PD-L1-mediated pathway results in the reversal of the exhausted T-cell phenotype and the normalization of the anti-tumor response, providing a rationale for cancer immunotherapy. Several therapies that target PD1/PD-L1 pathways are currently in use or in clinical trials.
References	Dong, H. et al. (1999) Nat Med. 5:1365. Pardoll, D.M. (2012) Nat Rev Cancer. 12:252.

NCBI AND UNIPROT INFORMATION

NCBI GI #	390979639
NCBI GeneID	29126
NCBI Accession #	NP_001254635.1
NCBI GenBank Nucleotide #	NM_001267706.1
UniProt Accession #	Q9NZQ7; Q14CJ2; Q2V8D5; Q66RK1; Q6WEX4; Q9NUZ5; B2RBA2; B4DU27
Molecular Weight	33,275 Da
NCBI Official Full Name	programmed cell death 1 ligand 1 isoform b
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; B7 homolog 1; CD274 antigen; PDCD1 ligand 1; programmed death ligand 1
UniProt Protein Name	Programmed cell death 1 ligand 1
UniProt Gene Name	CD274
UniProt Synonym Gene Names	B7H1; PDCD1L1; PDCD1LG1; PDL1; PD-L1; PDCD1 ligand 1; Programmed death ligand 1; B7-H1
UniProt Entry Name	PD1L1_HUMAN

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.