

**Anti-PD-L1 (Extracellular region) M051 Antibody**  
**Catalog # AN1896****Specification****Anti-PD-L1 (Extracellular region) M051 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q9NZQ7</a>
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Calculated MW	33275

**Anti-PD-L1 (Extracellular region) M051 Antibody - Additional Information**Gene ID **29126****Other Names**

Programmed cell death 1 ligand 1, PD-L1, PDCD1 ligand 1, Programmed death ligand 1, hPD-L1, B7 homolog 1, B7-H1, CD274, B7H1, PDCD1L1, PDCD1LG1, PDL1

**Dilution**

WB~~1:1000

IHC~~1:100~500

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Anti-PD-L1 (Extracellular region) M051 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**

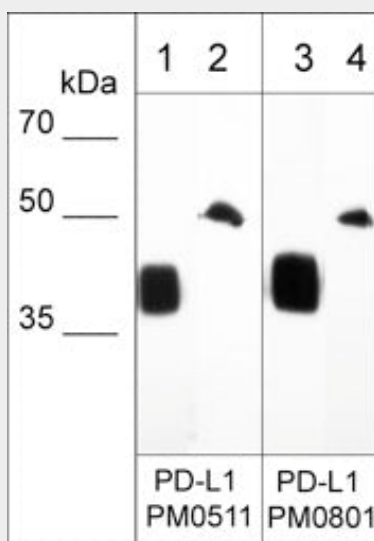
Blue Ice

**Anti-PD-L1 (Extracellular region) M051 Antibody - Protocols**

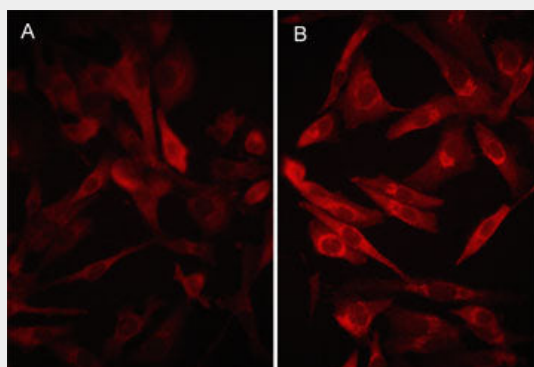
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

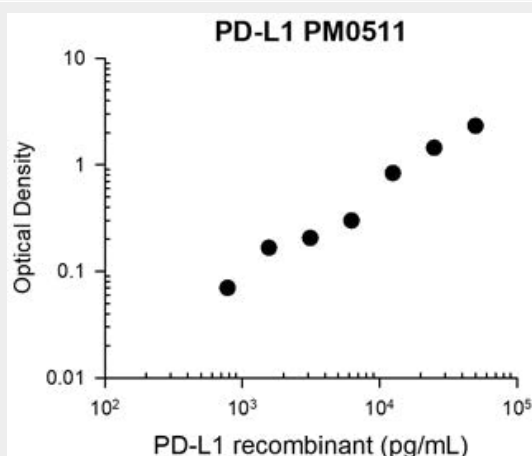
**Anti-PD-L1 (Extracellular region) M051 Antibody - Images**



Western blot of human recombinant PD-L1 extracellular region (40 kDa; 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).



Immunocytochemical labeling of PD-L1 in aldehyde fixed human MDA-MB-231 carcinoma cells untreated (A) or treated with 100 ng/ml IFN $\gamma$  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.



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.

#### **Anti-PD-L1 (Extracellular region) M051 Antibody - Background**

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