PD-L1 (E1L3N®) XP® Rabbit mAb

For Research Use Only. Not For Use In Diagnostic Procedures.

**Applications:** WB, IP, IHC-Bond, IHC-P, F

**Reactivity:** H

**Sensitivity:** Endogenous

**MW (kDa):** 40-50

**Source/Isotype:** Rabbit IgG

**UniProt ID:** Q9NZQ7

**Entrez-Gene ID:** 29126

**Product Usage Information**

**Application**

- Western Blotting: 1:1000
- Immunoprecipitation: 1:50
- IHC-Leica® Bond™: 1:400
- Immunohistochemistry (Paraffin): 1:200
- Flow Cytometry: 1:400

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**

PD-L1 (E1L3N®) XP® Rabbit mAb recognizes endogenous levels of total PD-L1 protein.

**Species Reactivity:** Human

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human PD-L1 protein.

**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 PD-L1 ligand binds the PD-1 transmembrane receptor and inhibits T cell activation. PD-L1 was discovered following a search for novel B7 protein homologs and was later shown to be expressed by antigen presenting cells, activated T cells, and tissues including placenta, heart, and lung (1-3). Similar in structure to related B7 family members, PD-L1 protein contains 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 (4-6). Expression of PD-L1 in cancer is associated with tumor-infiltrating lymphocytes, which mediate PD-L1 expression through the release of interferon gamma (7). Additional research links PD-L1 expression to cancers associated with viral infections (8,9).


**CROSS-REACTIVITY KEY**

- **Human**
- **Mouse**
- **Rat**
- **Hamster**
- **Monkey**
- **C. elegans**
- **Chicken**
- **D. melanogaster**
- **Xenopus**
- **Z. f. b.**
- **D. dog**
- **P. pig**
- **S. cerevisiae**
- **Q. C. elegans**
- **Horse**
- **All: all species expected**

**APPLICATIONS KEY**

- WB: Western Blot
- IP: Immunoprecipitation
- IHC: Immunohistochemistry
- ChIP: Chromatin Immunoprecipitation
- IF: Immunofluorescence
- F: Flow Cytometry
- E-P: ELISA-Peptide

**REFERENCES**


**IMPORTANT:** For primary antibodies recommended for western blotting applications, we recommend incubating the membrane with diluted antibody at 4°C with gentle shaking overnight. Please refer to the western blot protocol found on the product web page for the antibody-specific dilution recommendation.

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