PD-L1 (E1L3N®) XP® Rabbit mAb

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:
- WB, IP, IHC-Bond, IHC-P, FC-FP

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
- Immunoprecipitation
- IHC Leica Bond
- Immunohistochemistry (Paraffin)
- Flow Cytometry (Fixed/Permeabilized)

**Dilution**
- Western Blotting: 1:1000
- Immunoprecipitation: 1:50
- IHC Leica Bond: 1:200 - 1:800
- Immunohistochemistry (Paraffin): 1:100 - 1:400
- Flow Cytometry (Fixed/Permeabilized): 1:200 - 1:800

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.

For a carrier free (BSA and azide free) version of this product see product #85164.

Specificity / Sensitivity

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

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).

**Background References**


Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

- WB: Western Blotting
- IP: Immunoprecipitation
- IHC-Bond: IHC Leica Bond
- IHC-P: Immunohistochemistry (Paraffin)
- FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

https://www.cellsignal.com/datasheet.jsp?productId=13684&images=0&protocol=0&_requestid=1503102
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