

#51296 Store at -20C

PD-L1 (E1L3N®) XP® Rabbit mAb (HRP Conjugate)



Cell Signaling
TECHNOLOGY®

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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 40-50	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NZQ7	Entrez-Gene Id: 29126
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibodies.	
Specificity / Sensitivity	PD-L1 (E1L3N®) XP® Rabbit mAb (HRP Conjugate) 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.	
Product Description	This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated PD-L1 (E1L3N®) XP® Rabbit mAb #13684.	

MW (kDa)

40-50

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

1. Dong, H. et al. (1999) *Nat Med* 5, 1365-9.
2. Freeman, G.J. et al. (2000) *J Exp Med* 192, 1027-34.
3. Liang, S.C. et al. (2003) *Eur J Immunol* 33, 2706-16.
4. Dong, H. et al. (2002) *Nat Med* 8, 793-800.
5. Thompson, R.H. et al. (2006) *Cancer Res* 66, 3381-5.
6. Pardoll, D.M. (2012) *Nat Rev Cancer* 12, 252-64.
7. Taube, J.M. et al. (2012) *Sci Transl Med* 4, 127ra37.
8. Lyford-Pike, S. et al. (2013) *Cancer Res* 73, 1733-41.
9. Chen, B.J. et al. (2013) *Clin Cancer Res* 19, 3462-73.

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

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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