

#82723 Store at -20C

## PD-L2 (D7U8C™) XP® Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-Bond, IHC-P	H	Endogenous	45-60	Rabbit IgG	#Q9BQ51	80380

### Product Usage Information

#### Application

Western Blotting

IHC Leica Bond

Immunohistochemistry (Paraffin)

#### Dilution

1:1000

1:50 - 1:200

1:100 - 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.

For a carrier free (BSA and azide free) version of this product see product #99337.

### Specificity / Sensitivity

PD-L2 (D7U8C™) XP® Rabbit mAb recognizes endogenous levels of total PD-L2 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg168 of human PD-L2 protein.

### Background

Programmed cell death 1 ligand 2 (PD-L2, B7-DC, CD273) is a member of the B7 family of cell surface ligands that regulate T-cell activation and immune responses (1,2). PD-L2 binds the PD-1 transmembrane receptor and inhibits T-cell activation. PD-L2 was discovered following a search for novel B7 protein homologs and was later shown to be expressed by activated dendritic cells, macrophages, and T-cells (1,3). Similar in structure to related B7 family members, PD-L2 protein contains extracellular IgV and IgC2 domains, a transmembrane domain, and a short, cytoplasmic region. Research studies demonstrate that PD-L2 is expressed in several tumor types, including lung cancer, renal cell carcinoma, melanoma, Hodgkin's lymphoma and primary mediastinal large B-cell lymphoma (4-7).

### Background References

1. Latchman, Y. et al. (2001) *Nat Immunol* 2, 261-8.
2. Tseng, S.Y. et al. (2001) *J Exp Med* 193, 839-46.
3. Messal, N. et al. (2011) *Mol Immunol* 48, 2214-9.
4. Kim, M.Y. et al. (2015) *Lung Cancer* 88, 24-33.
5. Taube, J.M. et al. (2014) *Clin Cancer Res* 20, 5064-74.
6. Green, M.R. et al. (2010) *Blood* 116, 3268-77.
7. Ansell, S.M. et al. (2015) *N Engl J Med* 372, 311-9.

### 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**WB:** Western Blotting **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

### 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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