

Store at
-20C
#49189**PD-L2 (D6L5A) Rabbit mAb**

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Applications: IHC-Bond, IHC-P	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9WUL5	Entrez-Gene Id: 58205
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Product Usage Information**Application**

IHC Leica Bond
Immunohistochemistry (Paraffin)

Dilution

1:50 - 1:200
1:50 - 1:200

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 #64714.

Specificity/Sensitivity

PD-L2 (D6L5A) Rabbit mAb recognizes endogenous levels of total PD-L2 protein. Staining of unknown specificity in mouse ovary has been observed.

Species predicted to react based on 100% sequence homology

Pig

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala85 of mouse 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).

Applications Key

IHC-Bond: IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

M: Mouse

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