Store at -20°C

#82723

PD-L2 (D7U8C) XP® Rabbit mAb

Cell Signaling TECHNOLOGY®

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Entrez-Gene ID #80380
UniProt ID #Q9BQ51

rev. 01/15/16

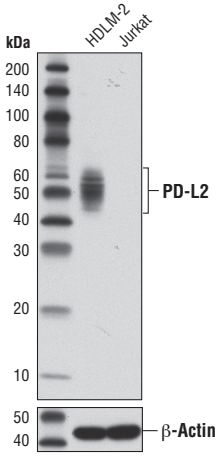
For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IHC-P Endogenous	H	45-60 kDa	Rabbit IgG**

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).

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.



Western blot analysis of HDLM-2 and Jurkat cell extracts using PD-L2 (D7U8C) XP® Rabbit mAb (upper) and β-Actin (D6A8) Rabbit mAb #8457 (lower).

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.*

***Species cross-reactivity is determined by western blot.**

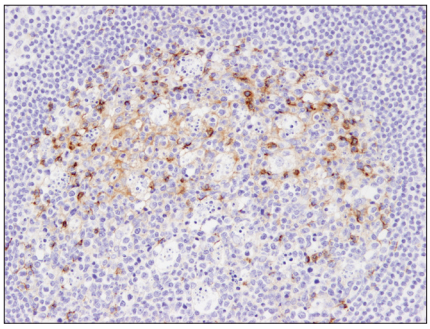
****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

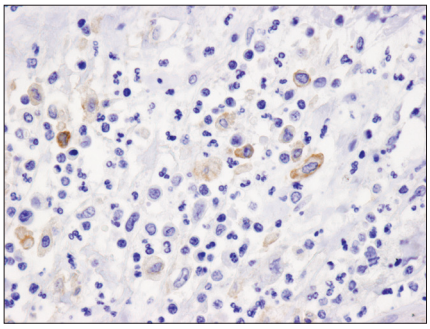
Western blotting	1:1000
Immunohistochemistry (Paraffin)	1:200†
Unmasking buffer:	EDTA
Antibody diluent:	SignalStain® Antibody Diluent #8112
Detection reagent:	SignalStain® Boost (HRP, Rabbit) #8114

†*Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.*

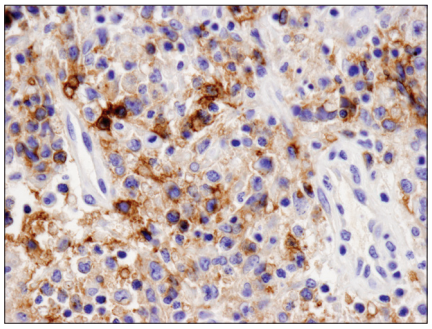
For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com



Immunohistochemical analysis of paraffin-embedded human tonsil using PD-L2 (D7U8C) XP® Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded human colon carcinoma using PD-L2 (D7U8C) XP® Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded human mediastinal large B-cell lymphoma using PD-L2 (D7U8C) XP® Rabbit mAb.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% BSA, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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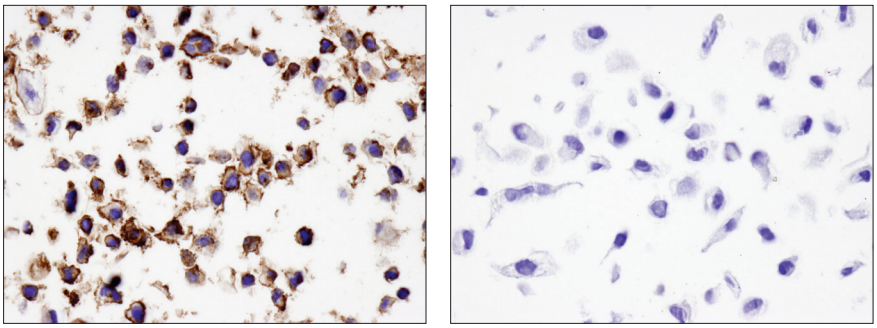
Applications: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide **Species Cross-Reactivity:** **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—Horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.



Immunohistochemical analysis of paraffin-embedded HDLM-2 (left) and PC-3 (right) cell pellets on SignalSlide® PD-L1 IHC Controls #13747 using PD-L2 (D7U8C) XP® Rabbit mAb.

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.