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## PD-L1 (Extracellular Domain Specific) (D8T4X) Rabbit mAb (Pacific Blue™ Conjugate)



**Cell Signaling**  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> FC-FP, FC-L	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9NZQ7	<b>Entrez-Gene Id:</b> 29126
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized) Flow Cytometry (Live)	<b>Dilution</b> 1:50 1:50
<b>Storage</b>	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
<b>Specificity / Sensitivity</b>	PD-L1 (Extracellular Domain Specific) (D8T4X) Rabbit mAb (Pacific Blue™ Conjugate) recognizes endogenous levels of total PD-L1 protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with mammalian cells expressing full length PD-L1 protein.	
<b>Product Description</b>	This Cell Signaling Technology antibody is conjugated to Pacific Blue™ fluorescent dye and tested in-house for direct flow cytometry in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated antibody PD-L1 (Extracellular Domain Specific) (D8T4X) Rabbit mAb #86744.	
<b>Background</b>	<p>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).</p>	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Dong, H. et al. (1999) <i>Nat Med</i> 5, 1365-9.</li> <li>Freeman, G.J. et al. (2000) <i>J Exp Med</i> 192, 1027-34.</li> <li>Liang, S.C. et al. (2003) <i>Eur J Immunol</i> 33, 2706-16.</li> <li>Dong, H. et al. (2002) <i>Nat Med</i> 8, 793-800.</li> <li>Thompson, R.H. et al. (2006) <i>Cancer Res</i> 66, 3381-5.</li> <li>Pardoll, D.M. (2012) <i>Nat Rev Cancer</i> 12, 252-64.</li> <li>Taube, J.M. et al. (2012) <i>Sci Transl Med</i> 4, 127ra37.</li> <li>Lyford-Pike, S. et al. (2013) <i>Cancer Res</i> 73, 1733-41.</li> <li>Chen, B.J. et al. (2013) <i>Clin Cancer Res</i> 19, 3462-73.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized) <b>FC-L:</b> Flow Cytometry (Live)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
<b>Trademarks and Patents</b>	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. Pacific Blue is a trademark of Molecular Probes, Inc.

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