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PD-L1 (Extracellular Domain Specific) (D8T4X) Rabbit mAb (Alexa Fluor® 647 Conjugate)


Cell Signaling
TECHNOLOGY®

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: IF-IC, FC-FP, FC-L	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NZQ7	Entrez-Gene Id: 29126
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Product Usage Information	Application Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized) Flow Cytometry (Live)	Dilution 1:200 1:50 1:50
Storage	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.	
Specificity / Sensitivity	PD-L1 (Extracellular Domain Specific) (D8T4X) Rabbit mAb (Alexa Fluor® 647 Conjugate) recognizes endogenous levels of total PD-L1 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with mammalian cells expressing full length PD-L1 protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated PD-L1 (Extracellular Domain Specific) (D8T4X) Rabbit mAb #86744.	
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) <i>Nat Med</i> 5, 1365-9. 2. Freeman, G.J. et al. (2000) <i>J Exp Med</i> 192, 1027-34. 3. Liang, S.C. et al. (2003) <i>Eur J Immunol</i> 33, 2706-16. 4. Dong, H. et al. (2002) <i>Nat Med</i> 8, 793-800. 5. Thompson, R.H. et al. (2006) <i>Cancer Res</i> 66, 3381-5. 6. Pardoll, D.M. (2012) <i>Nat Rev Cancer</i> 12, 252-64. 7. Taube, J.M. et al. (2012) <i>Sci Transl Med</i> 4, 127ra37. 8. Lyford-Pike, S. et al. (2013) <i>Cancer Res</i> 73, 1733-41. 9. Chen, B.J. et al. (2013) <i>Clin Cancer Res</i> 19, 3462-73.	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live)	
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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