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## PD-L1 (405.9A11) Mouse mAb



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<b>Applications:</b> WB, W-S, IHC-P	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 40-50	Source/Isotype: Mouse IgG1	<b>UniProt ID:</b> #Q9NZQ7	Entrez-Gene Id: 29126	
Product Usage Information	Aŗ	pplication		Dilution			
	We	Western Blotting			1:1000		
	Sir	Simple Western™			1:10 - 1:50		
	lm	Immunohistochemistry (Paraffin)			1:100 - 1:400		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	For a carrier-free (BSA and azide free) version of this product see product #39356.					
Specificity / Sensi	tivity PD-	PD-L1 (405.9A11) Mouse mAb recognizes endogenous levels of total PD-L1 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human PD-L1 protein.					
Background	liga trar B7 and PD: stud lung infil	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 Refer	2. F 3. L 4. C 5. T 6. F 7. T 8. L	<ol> <li>Dong, H. et al. (1999) Nat Med 5, 1365-9.</li> <li>Freeman, G.J. et al. (2000) J Exp Med 192, 1027-34.</li> <li>Liang, S.C. et al. (2003) Eur J Immunol 33, 2706-16.</li> <li>Dong, H. et al. (2002) Nat Med 8, 793-800.</li> <li>Thompson, R.H. et al. (2006) Cancer Res 66, 3381-5.</li> <li>Pardoll, D.M. (2012) Nat Rev Cancer 12, 252-64.</li> <li>Taube, J.M. et al. (2012) Sci Transl Med 4, 127ra37.</li> <li>Lyford-Pike, S. et al. (2013) Cancer Res 73, 1733-41.</li> <li>Chen, B.J. et al. (2013) Clin Cancer Res 19, 3462-73.</li> </ol>					

**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 W-S: Simple Western™ 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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