86163

## PD-1 (Intracellular Domain) (D4W2J) XP<sup>®</sup> Rabbit mAb



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

<b>Applications:</b> W, IP, IHC-Bond, IHC-P, IF-IC, FC-FP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 52-65	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #Q15116	Entrez-Gene Id: 5133	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation IHC Leica Bond Immunohistochemistr Immunofluorescence ( Flow Cytometry (Fixed.	y (Paraffin) (Immunocytochem /Permeabilized)	istry)	Dil 1:10 1:20 1:10 1:10 1:20 1:10	ution 000 00 - 1:400 00 - 1:400 00 - 1:400 00 - 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.					
Specificity/Sensitivity		PD-1 (Intracellular Domain) (D4W2J) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total PD-1 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala274 of human PD-1 protein.					
Background		The programmed cell of immunoreceptors that contains an extracellul an immunoreceptor ty switch motif (ITSM). PE PD-1 ITIM and ITSM pf SHP-1 and SHP-2, whice in activated B cells and characterized (8). The F studies show that can Consequently, blockad intervention (10).	death 1 protein (PE c regulate T cell acti ar Ig V domain, a t rosine-based inhib D-1 is activated by t hosphorylation lead th suppress TCR sig I monocytes, althou PD-1 pathway plays cer cells often adop le of PD-1 and its lig	p-1, PDCD1, CD279) is a r vation and immune resp ransmembrane domain, itory motif (ITIM) and ar he cell surface ligands P ds to the recruitment of naling (5-7). In addition ugh its function in these s an important role in im t this pathway to escape gands is proving to be a	nember of the CD2 ponses (1-3). The PE and a cytoplasmic immunoreceptor t D-L1 and PD-L2 (4). the protein tyrosine to activated T cells, cell types has not b imune tolerance (3) immune surveillar sound strategy for	8 family of D-1 protein tail that includes yrosine-based Upon activation, e phosphatases PD-1 is expressed been fully ; however, research nee (9). neoplastic	
Background Re	ferences	1. Ishida, Y. et al. (1992 2. Shinohara, T. et al. (1 3. Nishimura, H. et al. ( 4. Freeman, G.J. et al. (2 5. Yokosuka, T. et al. (2 6. Sheppard, K.A. et al. 7. Chemnitz, J.M. et al. 8. Thibult, M.L. et al. (2 9. Dong, H. et al. (2002 10. Topalian, S.L. et al.	2) <i>EMBO J</i> 11, 3887- 1994) <i>Genomics</i> 23 (1999) <i>Immunity</i> 11 2000) <i>J Exp Med</i> 19 012) <i>J Exp Med</i> 209 (2004) <i>FEBS Lett</i> 5 (2004) <i>J Immunol</i> 1 013) <i>Int Immunol</i> 2 (2012) <i>Curr Opin In</i> (2012) <i>Curr Opin In</i>	95. , 704-6. , 141-51. 2, 1027-34. , 1201-17. 74, 37-41. 73, 945-54. 25, 129-37. 00. mmunol 24, 207-12.			
Species Reactiv	ity	Species reactivity is de	termined by testing	g in at least one approve	ed 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		W: Western Blotting IP: Immunoprecipitation IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)					

Cross-Reactivity Key	H: Human				
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