CD3ε (D4V8L) Rabbit mAb





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Applications: Reactivity: W, IHC-Bond, IHC-P M	Sensitivity: Endogenous	MW (kDa): 22	Source/Isotype: Rabbit IgG	UniProt ID: #P22646	Entrez-Gene Id: 12501		
Product Usage Information Storage	Application Western Blotting IHC Leica Bond Immunohistochemistry (Paraffin) Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg.						
	0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i> For a carrier-free (BSA and azide free) version of this product see product #47359						
Specificity/Sensitivity	CD3ɛ (D4V8L) Rabbit mAb recognizes endogenous levels of total mouse CD3ɛ protein. Non-specific staining in mouse pancreas has been observed.						
	immunohistochemica	CD3ɛ (D4V8L) Rabbit mAb may react weakly with human CD3ɛ, but is not suggested for use in immunohistochemical analysis of human tissues. Instead, CD3ɛ (D7A6E™) XP [®] Rabbit mAb #85061 is recommended for IHC analysis of human tissue samples.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val31 of mouse CD3ɛ protein.						
Background	When T cells encounter antigens via the T cell receptor (TCR), information about the quantity and quality of antigens is relayed to the intracellular signal transduction machinery (1). This activation process depends mainly on CD3 (Cluster of Differentiation 3), a multiunit protein complex that directly associates with the TCR. CD3 is composed of four polypeptides: ζ , γ , ε , and δ . Each of these polypeptides contains at least one immunoreceptor tyrosine-based activation motif (ITAM) (2). Engagement of the TCR complex with foreign antigens induces tyrosine phosphorylation in the ITAM motifs and phosphorylated ITAMs function as docking sites for signaling molecules such as ZAP-70 and the p85 subunit of PI-3 kinase (3,4). TCR ligation also induces a conformational change in CD3 ε , such that a proline region is exposed and then associates with the adaptor protein Nck (5).						
Background References	2. Pitcher, L.A. and va 3. Osman, N. et al. (19 4. Hatada, M.H. et al.	1. Kuhns, M.S. et al. (2006) <i>Immunity</i> 24, 133-139. 2. Pitcher, L.A. and van Oers, N.S. (2003) <i>Trends Immunol.</i> 24, 554-560. 3. Osman, N. et al. (1996) <i>Eur. J. Immunol.</i> 26, 1063-1068. 4. Hatada, M.H. et al. (1995) <i>Nature</i> 377, 32-38. 5. Gil, D. et al. (2002) <i>Cell</i> 109, 901-912.					
Species Reactivity	Species reactivity is d	etermined by testir	ig 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	W: Western Blotting IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivity Key	M: Mouse						
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