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CD19 (Intracellular Domain) (D4V4B) XP[®] Rabbit mAb



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Applications: W, IP, IHC-Bond, IHC-P, FC-FP	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #P15391	Entrez-Gene Id: 930
Product Usage Information		Application Western Blotting Immunoprecipitation IHC Leica Bond Immunohistochemistry Flow Cytometry (Fixed/			Dilution 1:1000 1:100 1:800 - 1:324 1:1600 - 1:64 1:6400 - 1:12	400
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.				
		For a carrier free (BSA a	and azide free) ver	sion of this product see	product #86916.	
Specificity/Sensitivity		CD19 (Intracellular Domain) (D4V4B) XP [®] Rabbit mAb recognizes endogenous levels of total CD19 protein.				
Species predict based on 100% homology		Bovine				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu427 of human CD19 protein.				
Background	CD19 is a 95 kDa coreceptor which amplifies the signaling cascade in B cells (1). On the B cell surface, CD19 associates with CD21, CD81, and Leu-13 to exert its function. The cytoplasmic tail of CD19 has nine conserved tyrosine residues playing critical roles in CD19 mediated function by coupling signalin molecules to the receptor (1). After B cell receptor or CD19 ligation, Tyr531 and Tyr500 of CD19 are progressively phosphorylated. This phosphorylation enables the coupling of PI3 kinase and Src family tyrosine kinase to CD19 and activates the PI3K and Src signaling pathways (2,3). Coligation of B cell receptor and CD19 also promotes Tyr409 phosphorylation in CD19. The phosphorylation at these site enables its binding to Vav and mediates elevated intracellular calcium response, as well as the JNK pathway (4,5).					cail of CD19 has coupling signaling 00 of CD19 are ase and Src family gation of B cell ation at these sites
Background References		1. Tedder, T.F. et al. (1997) <i>Immunity</i> 6, 107-18. 2. Buhl, A.M. and Cambier, J.C. (1999) <i>J Immunol</i> 162, 4438-46. 3. Fujimoto, M. et al. (2000) <i>Immunity</i> 13, 47-57. 4. O'Rourke, L.M. et al. (1998) <i>Immunity</i> 8, 635-45. 5. Sato, S. et al. (1997) <i>Proc Natl Acad Sci U S A</i> 94, 13158-62.				
Species Reactiv	ity	Species reactivity is det	ermined by testing	g in at least one approve	d 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) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key		H: Human M: Mouse Mk: Monkey				
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