CD19 Antibody



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

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Applications: WB, IP, IF-IC, FC-FP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 95	Source: Rabbit	UniProt ID: #P15391	Entrez-Gene Id: 930
Product Usage Information	Ap	plication				Dilution
	We	estern Blotting				1:1000
	Imi	munoprecipitation				1:50
	Imi	Immunofluorescence (Immunocytochemistry)				1:50
	Flo	w Cytometry (Fixed	l/Permeabilized)			1:50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		CD19 Antibody detects endogenous levels of CD19 independent of its phosphorylated state.				
Source / Purification	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues around the carboxy-terminus of human CD19. Antibodies are purified by protein A and peptide affinity chromatography.				
Background	CD: con mol prog tyro rece ena	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 signaling 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 sites enables its binding to Vav and mediates elevated intracellular calcium response, as well as the JNK pathway (4,5).				
Background Refer	2. B 3. F 4. C	 Tedder, T.F. et al. (1997) Immunity 6, 107-18. Buhl, A.M. and Cambier, J.C. (1999) J Immunol 162, 4438-46. Fujimoto, M. et al. (2000) Immunity 13, 47-57. O'Rourke, L.M. et al. (1998) Immunity 8, 635-45. Sato, S. et al. (1997) Proc Natl Acad Sci U S A 94, 13158-62. 				

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: V

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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