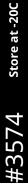
CD19 Antibody CCI Signaling TECHNOLOGY* Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com



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| Applications: W, IP, IF-IC, FC-FP | Reactivity: H M | Sensitivity: Endogenous | MW (kDa): 95 | Source/Isotype: Rabbit | UniProt ID: #P15391 | Entrez-Gene Id: 930 |
|--------------------------------------|--------------------|--|------------------------|----------------------------------|------------------------|---|
| Product Usage Information | | Application Western Blotting Immunoprecipitation Immunofluorescence Flow Cytometry (Fixed | l/Permeabilized) | - | | Dilution 1:1000 1:50 1:50 1:50 |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/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 | | 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 | | 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 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 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 | | W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FP: Flow Cytometry (Fixed/Permeabilized) | | | | cytochemistry) FC- |
| Cross-Reactivity Key | | H: Human M: Mouse | | | | |
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