e at -20C	Phospho-CD19 (Tyr531) Antibody		Cell Signaling		
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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For Research Lise Only	Not for Use in	Diagnostic Procedures.
FUI RESEAICH USE UIII	y. NUL IUI USE III	Diagnostic Frocedures.

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 95	Source: Rabbit	UniProt ID: #P15391	Entrez-Gene Id: 930		
Product Usage	Ар	plication			Dilution			
Information	We	estern Blotting			1:1000			
	Im	munoprecipitation			1:100			
Storage	age Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store 20°C. Do not aliquot the antibody.							
Specificity / Sensiti	····)	Phospho-CD19 (Tyr531) Antibody detects endogenous levels of CD19 only when phosphorylated at tyrosine 531.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Tyr531 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 Refere	2. B 3. F 4. C	 Tedder, T.F. et al. (1997) <i>Immunity</i> 6, 107-18. Buhl, A.M. and Cambier, J.C. (1999) <i>J Immunol</i> 162, 4438-46. Fujimoto, M. et al. (2000) <i>Immunity</i> 13, 47-57. O'Rourke, L.M. et al. (1998) <i>Immunity</i> 8, 635-45. Sato, S. et al. (1997) <i>Proc Natl Acad Sci U S A</i> 94, 13158-62. 						
Species Reactivity	Spec	cies reactivity is dete	ermined by testing i	n at least one appro	ved application (e.g., we	estern blot).		
Western Blot Buffe		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	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity K	X: X	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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Phospho-CD19 (Tyr531) Antibody (#3571) Datasheet Without Images Cell Signaling Technology

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