## Phospho-Syk (Tyr323) Antibody





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Applications: W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 72	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P43405	Entrez-Gene Id: 6850	
Product Usage Information		Application Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 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/Sen	sitivity	Phospho-Syk (Tyr323) Antibody detects endogenous levels of Syk only when phosphorylated at Tyr323. It does not cross-react with other tyrosine-phosphorylated members of the Syk/Zap-70 tyrosine kinase family.					
Species predic based on 100% homology		Mouse, Rat					
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr323 of human Syk or Tyr317 of mouse Syk. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		Syk is a protein tyrosine kinase that plays an important role in intracellular signal transduction in hematopoietic cells (1-3). Syk interacts with immunoreceptor tyrosine-based activation motifs (ITAMs) located in the cytoplasmic domains of immune receptors (4). It couples the activated immunoreceptors to downstream signaling events that mediate diverse cellular responses, including proliferation, differentiation, and phagocytosis (4). There is also evidence of a role for Syk in nonimmune cells and investigators have indicated that Syk is a potential tumor suppressor in human breast carcinomas (5). Tyr323 is a negative regulatory phosphorylation site within the SH2-kinase linker region in Syk. Phosphorylation at Tyr323 provides a direct binding site for the TKB domain of Cbl (6,7). Tyr352 of Syk is involved in the association of PLCγ1 (8). Tyr525 and Tyr526 are located in the activation loop of the Syk kinase domain; phosphorylation at Tyr525/526 of human Syk (equivalent to Tyr519/520 of mouse Syk) is essential for Syk function (9).					
Background Re	eferences	<ol> <li>Cheng, A.M. and Chan, A.C. (1997) <i>Curr Opin Immunol</i> 9, 528-33.</li> <li>Kurosaki, T. (1997) <i>Curr Opin Immunol</i> 9, 309-18.</li> <li>Chu, D.H. et al. (1998) <i>Immunol Rev</i> 165, 167-80.</li> <li>Turner, M. et al. (2000) <i>Immunol Today</i> 21, 148-54.</li> <li>Coopman, P.J. et al. (2000) <i>Nature</i> 406, 742-7.</li> <li>Deckert, M. et al. (1998) <i>J Biol Chem</i> 273, 8867-74.</li> <li>Rao, N. et al. (2001) <i>EMBO J</i> 20, 7085-95.</li> <li>Law, C.L. et al. (1996) <i>Mol Cell Biol</i> 16, 1305-15.</li> <li>Zhang, J. et al. (2000) <i>J Biol Chem</i> 275, 35442-7.</li> </ol>					
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivi	ty Key	H: Human					
Trademarks ar	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.					

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