10

## Phospho-Syk (Tyr525/526) (C87C1) Rabbit mAb



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Applications: Reactivity N, W-S, IP, IF-IC, FC- H FP	<b>/: Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 72	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P43405	Entrez-Gene Id: 6850		
Product Usage Information	<b>Application</b> Western Blotting Simple Western™	Western Blotting Simple Western™			<b>Dilution</b> 1:1000 1:10 - 1:50		
		Immunofluorescence (Immunocytochemistry)			1:50 1:100 - 1:400		
	Flow Cytometry (Fixe	d/Permeabilized)	1:200 - 1:800				
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	For a carrier free (BSA and azide free) version of this product see product #16859.					
Specificity/Sensitivity	phosphorylated at Ty when singly phospho	Phospho-Syk (Tyr525/526) (C87C1) Rabbit mAb detects endogenous levels of Syk protein only when phosphorylated at Tyr525/526 of human Syk or Tyr519/520 of mouse Syk. It also detects Syk protein when singly phosphorylated at Tyr526 of human Syk or Tyr520 of mouse Syk. It does not cross-react with other tyrosine-phosphorylated protein tyrosine kinases.					
Species predicted to react based on 100% sequence homology	<b>t</b> Mouse, Rat						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr525/526 of human Syk.					
Background	hematopoietic cells ( located in the cytopla to downstream signa differentiation, and p investigators have ind Tyr323 is a negative r Phosphorylation at Ty is involved in the asso Syk kinase domain; p	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 PLCv1 (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 References	2. Kurosaki, T. (1997) 3. Chu, D.H. et al. (199 4. Turner, M. et al. (20 5. Coopman, P.J. et al. 6. Deckert, M. et al. (1 7. Rao, N. et al. (2001) 8. Law, C.L. et al. (199	1. Cheng, A.M. and Chan, A.C. (1997) <i>Curr Opin Immunol</i> 9, 528-33. 2. Kurosaki, T. (1997) <i>Curr Opin Immunol</i> 9, 309-18. 3. Chu, D.H. et al. (1998) <i>Immunol Rev</i> 165, 167-80. 4. Turner, M. et al. (2000) <i>Immunol Today</i> 21, 148-54. 5. Coopman, P.J. et al. (2000) <i>Nature</i> 406, 742-7. 6. Deckert, M. et al. (1998) <i>J Biol Chem</i> 273, 8867-74. 7. Rao, N. et al. (2001) <i>EMBO J</i> 20, 7085-95. 8. Law, C.L. et al. (1996) <i>Mol Cell Biol</i> 16, 1305-15. 9. Zhang, J. et al. (2000) <i>J Biol Chem</i> 275, 35442-7.					
Species Reactivity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot Buffer	IMPORTANT: For wes	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X					

Western Blot BufferIMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X<br/>TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key	W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key	H: Human				
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