967

Phospho-Syk (Tyr525/526) (C87C1) Rabbit mAb (Pacific Blue[™] Conjugate)



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Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P43405	Entrez-Gene Id: 6850		
Product Usage Information		Application Flow Cytometry (Fixed/Pe	ermeabilized)		Dilution 1:50		
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot th antibody. Protect from light. Do not freeze.					
Specificity/Sensit	tivity	Phospho-Syk (Tyr525/526) (C87C1) Rabbit mAb (Pacific Blue™ Conjugate) 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 based on 100% so homology		Mouse, Rat					
Source / Purifica	tion	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr525/526 of human Syk protein.					
Description		This Cell Signaling Technology antibody is conjugated to Pacific Blue™ fluorescent dye and tested in- house for direct flow cytometry in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated antibody Phospho-Syk (Tyr525/526) (C87C1) Rabbit mAb #2710.					
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 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 Refe	erences	 Cheng, A.M. and Chan, A.C. (1997) <i>Curr Opin Immunol</i> 9, 528-33. Kurosaki, T. (1997) <i>Curr Opin Immunol</i> 9, 309-18. Chu, D.H. et al. (1998) <i>Immunol Rev</i> 165, 167-80. Turner, M. et al. (2000) <i>Immunol Today</i> 21, 148-54. Coopman, P.J. et al. (2000) <i>Nature</i> 406, 742-7. Deckert, M. et al. (1998) <i>J Biol Chem</i> 273, 8867-74. Rao, N. et al. (2001) <i>EMBO J</i> 20, 7085-95. Law, C.L. et al. (1996) <i>Mol Cell Biol</i> 16, 1305-15. Zhang, J. et al. (2000) <i>J Biol Chem</i> 275, 35442-7. 					
Species Reactivit	y	Species reactivity is deter	mined by testing in at lea	ast one approved app	blication (e.g., western blot).		
Applications Key		FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity	Key	H: Human					
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