Syk (D1I5Q) Rabbit mAb



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Applications: F WB, IP, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 72	Source/Isotype: Rabbit IgG	UniProt ID: #P43405	Entrez-Gene Id: 6850	
Product Usage Information	Ap	plication				Dilution	
	We	estern Blotting				1:1000	
	Im	munoprecipitation				1:100	
	Im	munofluorescence (Immunocytochen	nistry)		1:6400	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #59946.					
Specificity / Sensitivity Syk (D1I5Q) Rabbit mAb recognizes endogenous levels of total Syk protein.					Syk protein.		
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Syk protein.					
Background	hen loca dow diffe inve Tyr; Pho inve kina	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 PLCy1 (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 Referen	2. K 3. C 4. T 5. C 6. D 7. R 8. L	 Cheng, A.M. and Chan, A.C. (1997) Curr Opin Immunol 9, 528-33. Kurosaki, T. (1997) Curr Opin Immunol 9, 309-18. Chu, D.H. et al. (1998) Immunol Rev 165, 167-80. Turner, M. et al. (2000) Immunol Today 21, 148-54. Coopman, P.J. et al. (2000) Nature 406, 742-7. Deckert, M. et al. (1998) J Biol Chem 273, 8867-74. Rao, N. et al. (2001) EMBO J 20, 7085-95. Law, C.L. et al. (1996) Mol Cell Biol 16, 1305-15. Zhang, J. et al. (2000) J Biol Chem 275, 35442-7. 					

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 nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

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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Limited Uses

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