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## Syk (D3Z1E) XP® Rabbit mAb



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: WB, W-S, IP, IHC-P, IF- IC, FC-FP	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 72	Source/Isotype: Rabbit IgG	UniProt ID: #P43405	Entrez-Gene Id: 6850
Product Usage Information	A	Application			Dilution	
	W	estern Blotting		1:1000		
	Si	mple Western™		1:10 - 1:50		
	Im	munoprecipitation		1:50		
	Im	munohistochemistry	(Paraffin)	1:300		
	Im	Immunofluorescence (Immunocytochemistry)			1:800 - 1:1600	
	FI	Flow Cytometry (Fixed/Permeabilized)			1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.				
	For	For a carrier free (BSA and azide free) version of this product see product #27543.				
Specificity / Sensitivity		Syk (D3Z1E) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total Syk protein.				
Source / Purificat	ion Mo	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues around Asn463 of human Syk protein.				
Background	her loc dov diff inv Tyr Ph inv kin	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 Refe	2. F 3. G 4. <sup>-</sup> 5. G 6. I 7. F 8. I	<ol> <li>Cheng, A.M. and Chan, A.C. (1997) Curr Opin Immunol 9, 528-33.</li> <li>Kurosaki, T. (1997) Curr Opin Immunol 9, 309-18.</li> <li>Chu, D.H. et al. (1998) Immunol Rev 165, 167-80.</li> <li>Turner, M. et al. (2000) Immunol Today 21, 148-54.</li> <li>Coopman, P.J. et al. (2000) Nature 406, 742-7.</li> <li>Deckert, M. et al. (1998) J Biol Chem 273, 8867-74.</li> <li>Rao, N. et al. (2001) EMBO J 20, 7085-95.</li> <li>Law, C.L. et al. (1996) Mol Cell Biol 16, 1305-15.</li> <li>Zhang, J. et al. (2000) J Biol Chem 275, 35442-7.</li> </ol>				

**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** 

Syk (D3Z1E) XP® Rabbit mAb (#13198) Datasheet Without Images Cell Signaling Technology

WB: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation

IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)

**FC-FP:** Flow Cytometry (Fixed/Permeabilized)

**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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