

## Syk (D3Z1E) XP<sup>®</sup> Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

## For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> W, W-S, IP, IHC-P, IF-IC, FC-FP	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 72	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P43405	Entrez-Gene Id 6850
Product Usage		Application			Dilution	
Information		Western Blotting			1:1000	
		Simple Western™			1:10	- 1:50
		Immunoprecipitation	1		1:50	
		Immunohistochemis	• •			0 - 1:600
		Immunofluorescence (Immunocytochemistry)			1:800 - 1:1600	
		Flow Cytometry (Fixe	d/Permeabilized)		1:40	0 - 1:1600
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 and azide free) version of this product see product #27543.				
Specificity/Sensitivity		Syk (D3Z1E) $XP^{\otimes}$ Rabbit mAb recognizes endogenous levels of total Syk protein. #13198 lacks sensitivity in mouse tissues by immunofluorescence.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues around Asn463 of human Syk protein.				
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 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).				
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.					3.	
Species Reactivit	у	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buf	_			membrane with diluted		

**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  $4^{\circ}$ C with gentle shaking, overnight.

**Applications Key** 

**W:** Western Blotting **W-S:** Simple Western<sup>™</sup> **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

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