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Syk (D3Z1E) XP[®] Rabbit mAb (Biotinylated)



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

Applications: WB	Reactivity: HMR	Sensitivity: Endogenous	MW (kDa): 72	Source/Isotype: Rabbit IgG	UniProt ID: #P43405	Entrez-Gene Id: 6850	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting		1:1000			
Storage		Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20 °C. Do not aliquot the antibody.					
Specificity / Sensitivity Syk (D3Z1E) XP® Rabbit mAb reco				izes endogenous levels of total Syk protein.			
Source / Purificatio	• •	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues around Asn463 of human Syk protein.					
Product Description	antil	This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Syk (D3Z1E) XP® Rabbit mAb #13198.					

MW (kDa) 72

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).

Background References

- 1. Cheng, A.M. and Chan, A.C. (1997) Curr Opin Immunol 9, 528-33.
- 2. Kurosaki, T. (1997) Curr Opin Immunol 9, 309-18.
- 3. Chu, D.H. et al. (1998) Immunol Rev 165, 167-80.
- 4. Turner, M. et al. (2000) Immunol Today 21, 148-54.
- 5. Coopman, P.J. et al. (2000) Nature 406, 742-7.
- 6. Deckert, M. et al. (1998) J Biol Chem 273, 8867-74.
- 7. Rao, N. et al. (2001) EMBO J 20, 7085-95.
- 8. Law, C.L. et al. (1996) Mol Cell Biol 16, 1305-15.
- 9. 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

1/1/24. 3:34 PM

Syk (D3Z1E) XP® Rabbit mAb (Biotinylated) (#97818) Datasheet Without Images Cell Signaling Technology

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 Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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