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Phospho-Syk (Tyr525/526) (C87C1) Rabbit mAb (Biotinylated)



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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 72	Source/Isotype: Rabbit IgG	UniProt ID: #P43405	Entrez-Gene Id: 6850
Product Usage Information	Ар	plication		Dilution		
	We	estern 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 antibodies.				
Specificity / Sens	only prot	when phosphoryla ein when singly pho	ted at Tyr525/526 sphorylated at Ty	obit mAb (Biotinylated) d o of human Syk or Tyr51 yr526 of human Syk or T protein tyrosine kinases	9/520 of mouse Syk. Tyr520 of mouse Syk.	t also detects Syk
Species predicted react based on 10 sequence homological contractions are contracted by the contraction of t	00%	use, Rat				
Source / Purificat	. •	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr525/526 of human Syk protein.				
Product Descripti	oduct Description 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 Phospho-Syk (Tyr525/526) (C87C1) Rabbit mAb #2710.					
ИW (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).

1/1/24. 9:39 AM Phospho-Svk (Tvr525/526) (C87C1) Rabbit mAb (Biotinvlated) (#5514) Datasheet Without Images Cell Sign...

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

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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