Store at -20C

Phospho-Zap-70 (Tyr493)/Syk (Tyr526) Antibody



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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 70	Source: Rabbit	UniProt ID: #P43403	Entrez-Gene Id 7535
Product Usage Information	Α	Application			Dilution	
	V	Vestern Blotting			1:1000	
	Ir	mmunoprecipitation			1:50	
Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 20°C. Do not aliquot the antibody.				00 μg/ml BSA and 50% (glycerol. Store at –	
Specificity / Sensitivity		Phospho-Zap-70 (Tyr493)/Syk (Tyr526) Antibody detects endogenous levels of Zap-70 only when phosphorylated at Tyr493. This antibody may cross-react with other activated tyrosine kinases.				
Species predicte react based on 1 sequence homol	.00%	ouse, Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr493 of human Zap-70. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The Syk family protein tyrosine kinase Zap-70 is expressed in T and NK cells and plays a critical role in mediating T cell activation in response to T cell receptor (TCR) engagement (1). Following TCR engagement, Zap-70 is rapidly phosphorylated on several tyrosine residues through autophosphorylation and transphosphorylation by the Src family tyrosine kinase Lck (2-6). Tyrosine phosphorylation correlates with increased Zap-70 kinase activity and downstream signaling events. Expression of Zap-70 is correlated with disease progression and survival in patients with chronic lymphocytic leukemia (7,8). Phosphorylation of Tyr493 within the activation loop results in enzymatic activation of Zap-70 (9).				
Background References		 Chu, D.H. et al. (1998) Immunol Rev 165, 167-80. Iwashima, M. et al. (1994) Science 263, 1136-9. Neumeister, E.N. et al. (1995) Mol Cell Biol 15, 3171-8. Chan, A.C. et al. (1995) EMBO J 14, 2499-508. Williams, B.L. et al. (1999) EMBO J 18, 1832-44. Di Bartolo, V. et al. (1999) J Biol Chem 274, 6285-94. Wiestner A et al. (2003) Blood 101, 4944-51. 				

- 7. Wiestner, A. et al. (2003) Blood 101, 4944-51.
- 8. Crespo, M. et al. (2003) N Engl J Med 348, 1764-75.
- 9. Watts, J.D. et al. (1994) J Biol Chem 269, 29520-9.

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

Applications Key

WB: Western Blotting IP: Immunoprecipitation

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

3/23/24, 10:53 AM

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