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Phospho-Zap-70 (Tyr319)/Syk (Tyr352) (65E4) Rabbit mAb



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Applications: W, IF-IC, FC-FP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 70, 72	Source/Isotype: Rabbit IgG	UniProt ID: #P43403, #P43405	Entrez-Gene Id 7535, 6850		
Product Usage Information		Application Western Blotting Immunofluorescence Flow Cytometry (Fixe	· ,	istry)	Dilution 1:1000 1:200 - 1:800 1:400 - 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 #31754.						
Specificity/Sensit	ivity	Phospho-Zap-70 (Tyr319)/Syk (Tyr352) (65E4) Rabbit mAb detects endogenous levels of Zap-70 only when phosphorylated at Tyr319. It cross-reacts with endogenous levels of Syk when phosphorylated a Tyr352.						
Species predicted based on 100% se homology		Rat, Hamster, Chicker	n, Bovine, Dog, Pig, I	Horse				
Source / Purificat	ion	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr319 of human Zap-70.						
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).						
Background Refe	rences	 Chu, D.H. et al. (1998) <i>Immunol Rev</i> 165, 167-80. Iwashima, M. et al. (1994) <i>Science</i> 263, 1136-9. Neumeister, E.N. et al. (1995) <i>Mol Cell Biol</i> 15, 3171-8. Chan, A.C. et al. (1995) <i>EMBO J</i> 14, 2499-508. Williams, B.L. et al. (1999) <i>EMBO J</i> 18, 1832-44. Di Bartolo, V. et al. (1999) <i>J Biol Chem</i> 274, 6285-94. Wiestner, A. et al. (2003) <i>Blood</i> 101, 4944-51. Crespo, M. et al. (2003) <i>N Engl J Med</i> 348, 1764-75. 						
Species Reactivity	/	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buf	fer	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		W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivity I	(ey	H: Human M: Mouse						
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