Zap-70 (99F2) Rabbit mAb



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Applications: WB, IP, IHC-P, FC-FP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit	UniProt ID: #P43403	Entrez-Gene Id: 7535	
Product Usage Information	A	Application				Dilution	
	W	estern Blotting		1:1000			
	Im	nmunoprecipitation			1:50		
	Im	nmunohistochemistry	(Paraffin)		1:200 - 1:800		
	FI	ow Cytometry (Fixed	I/Permeabilized)	1:200 - 1:800			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #61169.					
Specificity / Sensi	tivity Za	Zap-70 (99F2) Rabbit mAb detects endogenous levels of total Zap-70.					
Source / Purificati	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corres residues surrounding the amino-terminus of human Zap-70.					esponding to	
Background	me enç and wit	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 Refer	2. I 3. ľ 4. ú 5. \ 6. I 7. \	 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. Crespo, M. et al. (2003) N Engl J Med 348, 1764-75. 					

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 IHC-P: Immunohistochemistry (Paraffin)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

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

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Limited Uses

Zap-70 (99F2) Rabbit mAb (#2705) Datasheet Without Images Cell Signaling Technology

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