## Zap-70 (L1E5) Mouse mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	Н	Endogenous	70	Mouse IgG1	#P43403	7535
Product Usage Information	2	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
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 #59806.				
Specificity/Sensitivity		Zap-70 (L1E5) Mouse mAb detects endogenous levels of total Zap-70 protein. It does not cross-react with other related proteins.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the Ser289 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 R	eferences	<ol> <li>Chu, D.H. et al. (1998) Immunol Rev 165, 167-80.</li> <li>Iwashima, M. et al. (1994) Science 263, 1136-9.</li> <li>Neumeister, E.N. et al. (1995) Mol Cell Biol 15, 3171-8.</li> <li>Chan, A.C. et al. (1995) EMBO J 14, 2499-508.</li> <li>Williams, B.L. et al. (1999) EMBO J 18, 1832-44.</li> <li>Di Bartolo, V. et al. (1999) J Biol Chem 274, 6285-94.</li> <li>Wiestner, A. et al. (2003) Blood 101, 4944-51.</li> <li>Crespo, M. et al. (2003) N Engl J Med 348, 1764-75.</li> </ol>				

**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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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