Zap-70 (136F12) Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P43403	Entrez-Gene Id: 7535
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4° C. Do not aliquot the antibodies. Protect from light. Do not freeze.			
Specificity/Sensitivity		Zap-70 (136F12) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total Zap-70 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Zap-70 protein.			
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells.			
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 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. 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).

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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