

7076

Zap-70 (136F12) Rabbit mAb (Alexa Fluor® 647 Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

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/Po	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 antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		Zap-70 (136F12) Rabbit mAb (Alexa Fluor [®] 647 Conjugate) detects endogenous levels of total Zap-70 protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the amino-terminus of human Zap-70. The antibody was conjugated to Alexa Fluor [®] 647 under optimum conditions with an F/P ratio of 2-6. The Alexa Fluor [®] 647 dye is maximally excited by red light (e.g. 633 nm He-Ne laser). Antibody conjugates of the Alexa Fluor [®] 647 dye produce bright far-red-fluorescence emission, with a peak at 665 nm.			
Description		This Cell Signaling Techn in-house for direct flow c			647 fluorescent dye and tested
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		1. Chu, D.H. et al. (1998) <i>Immunol Rev</i> 165, 167-80. 2. Iwashima, M. et al. (1994) <i>Science</i> 263, 1136-9. 3. Neumeister, E.N. et al. (1995) <i>Mol Cell Biol</i> 15, 3171-8. 4. Chan, A.C. et al. (1995) <i>EMBO J</i> 14, 2499-508. 5. Williams, B.L. et al. (1999) <i>EMBO J</i> 18, 1832-44. 6. Di Bartolo, V. et al. (1999) <i>J Biol Chem</i> 274, 6285-94. 7. Wiestner, A. et al. (2003) <i>Blood</i> 101, 4944-51. 8. 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).

Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human

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