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



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

Source/Isotype: Entrez-Gene Id: Applications: Reactivity: Sensitivity: **UniProt ID:** FC-FP Н Endogenous Rabbit IgG #P43403 7535 **Product Usage** Application Dilution Information Flow Cytometry (Fixed/Permeabilized) 1:50 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 **Storage** 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. Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to Source / Purification 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-

This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested inhouse for direct flow cytometric analysis of human cells.

Background

Product Description

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) Immunol Rev 165, 167-80.
- 2. Iwashima, M. et al. (1994) Science 263, 1136-9.

red-fluorescence emission, with a peak at 665 nm.

- 3. Neumeister, E.N. et al. (1995) Mol Cell Biol 15, 3171-8.
- 4. Chan, A.C. et al. (1995) *EMBO J* 14, 2499-508.
- 5. Williams, B.L. et al. (1999) EMBO J 18, 1832-44.
- 6. Di Bartolo, V. et al. (1999) J Biol Chem 274, 6285-94.
- 7. Wiestner, A. et al. (2003) Blood 101, 4944-51.
- 8. 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 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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