

Datasheet

ZAP70 monoclonal antibody, clone SBZAP (FITC)

Catalog Number: MAB5888

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against partial recombinant ZAP70.

Clone Name: SBZAP

Immunogen: Recombinant protein corresponding to amino acids 280-309 of human ZAP70.

Host: Mouse

Reactivity: Human

Applications: ELISA, Flow Cyt
(See our web site product page for detailed applications information)

Protocols: See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Specificity: human TCR ?; Zap-70 (Mr 70 KDa).

Form: Liquid

Conjugation: FITC

Isotype: IgG1, kappa

Recommend Usage: Flow Cytometry (1 ug/10⁶ cells)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.09% sodium azide)

Storage Instruction: Store in the dark at 4°C. Do not freeze.
Avoid prolonged exposure to light.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 7535

Gene Symbol: ZAP70

Gene Alias: FLJ17670, FLJ17679, SRK, STD, TZK, ZAP-70

Gene Summary: This gene encodes an enzyme belonging to the protein tyrosine kinase family, and it plays a role in T-cell development and lymphocyte activation. This enzyme, which is phosphorylated on tyrosine residues upon T-cell antigen receptor (TCR) stimulation, functions in the initial step of TCR-mediated signal transduction in combination with the Src family kinases, Lck and Fyn. This enzyme is also essential for thymocyte development. Mutations in this gene cause selective T-cell defect, a severe combined immunodeficiency disease characterized by a selective absence of CD8-positive T-cells. Two transcript variants that encode different isoforms have been found for this gene. [provided by RefSeq]

References:

1. The Syk/ZAP-70 protein tyrosine kinase connection to antigen receptor signalling processes. van Oers NS, Weiss A. *Semin Immunol.* 1995 Aug;7(4):227-36.
2. F2(Pmp)2-TAM zeta 3, a novel competitive inhibitor of the binding of ZAP-70 to the T cell antigen receptor, blocks early T cell signaling. Wange RL, Isakov N, Burke TR Jr, Otaka A, Roller PP, Watts JD, Aebersold R, Samelson LE. *J Biol Chem.* 1995 Jan 13;270(2):944-8.