

## ZAP70 monoclonal antibody, clone SBZAP (Biotin)

Catalog # MAB5891

Size 100 ug

### Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against partial recombinant ZAP70.
<b>Immunogen</b>	Recombinant protein corresponding to amino acids 280-309 of human ZAP70.
<b>Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Specificity</b>	human TCR $\zeta$ ; Zap-70 (Mr 70 KDa).
<b>Form</b>	Liquid
<b>Conjugation</b>	Biotin
<b>Isotype</b>	IgG1, kappa
<b>Recommend Usage</b>	The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

### Applications

- Enzyme-linked Immunoabsorbent Assay
- Flow Cytometry

## Gene Info — ZAP70

Entrez GeneID [7535](#)

Gene Name ZAP70

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

Gene Description zeta-chain (TCR) associated protein kinase 70kDa

Omim ID [176947](#)

Gene Ontology [Hyperlink](#)

**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]

**Other Designations** syk-related tyrosine kinase|zeta-chain (TCR) associated protein kinase (70 kD)|zeta-chain associated protein kinase 70kDa|zeta-chain associated protein kinase, 70kD

## Publication Reference

- [The Syk/ZAP-70 protein tyrosine kinase connection to antigen receptor signalling processes.](#)

van Oers NS, Weiss A.

Seminars in Immunology 1995 Aug; 7(4):227.

- [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.

The Journal of Biological Chemistry 1995 Jan; 270(2):944.

## Pathway

- [Natural killer cell mediated cytotoxicity](#)

- [Primary immunodeficiency](#)
- [T cell receptor signaling pathway](#)

## Disease

- [HIV Infections](#)