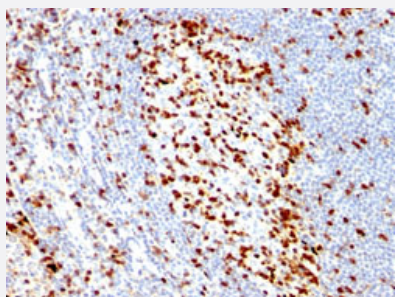


# ZAP70 monoclonal antibody, clone ZAP70/528

Catalog # MAB14415      Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with ZAP70 monoclonal antibody, clone ZAP70/528 (Cat # MAB14415).

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against full length recombinant human ZAP70.
<b>Immunogen</b>	Recombinant protein corresponding to full length human ZAP70.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	70
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein A purification
<b>Isotype</b>	IgG2a, kappa
<b>Recommend Usage</b>	Flow Cytometry (0.5-1 ug/million cells in 0.1 mL) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In 1 mM PBS (0.05% BSA, 0.05% sodium azide).

**Storage Instruction**

Store at 4°C.

**Note**

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human tonsil with ZAP70 monoclonal antibody, clone ZAP70/528 (Cat # MAB14415).

- Immunofluorescence

- Flow Cytometry

## Gene Info — ZAP70

**Entrez GeneID**[7535](#)**Protein Accession#**[P43403](#)**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

- [Sequential interactions of the TCR with two distinct cytoplasmic tyrosine kinases.](#)

M Iwashima, B A Irving, N S van Oers, A C Chan, A Weiss.

Science 1994 Feb; 263(5150):1136.

## Pathway

- [Natural killer cell mediated cytotoxicity](#)
- [Primary immunodeficiency](#)
- [T cell receptor signaling pathway](#)

## Disease

- [HIV Infections](#)