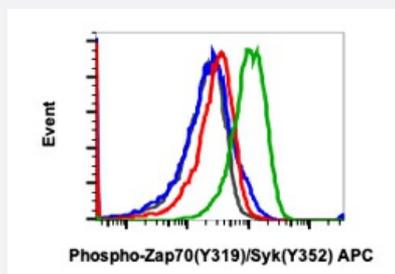


RecomAb™

# ZAP70/SYK recombinant monoclonal antibody, clone Zap70Y319-A3 (APC)

Catalog # RAB02920      Size 100 Reactions

## Applications



### Flow Cytometry

Flow cytometric analysis of Jurkat cells untreated (red) or treated with pervanadate (green) using Phospho-Zap70 (Tyr319)/Syk (Tyr352) (A3) rabbit mAb (APC Conjugate), Zap70Y319-A3, or concentration-matched Rabbit (G9) mAb IgG Isotype Control (APC Conjugate) for cells untreated (black) or treated with pervanadate (blue).

## Specification

<b>Product Description</b>	Rabbit recombinant monoclonal antibody raised against human ZAP70/SYK.
<b>Antibody Species</b>	Rabbit
<b>Immunogen</b>	A synthetic phospho-peptide corresponding to residues surrounding Tyr319/Tyr352 of human phospho Zap70/Syk.
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Conjugation</b>	APC
<b>Purification</b>	Protein A purification, Protein G purification
<b>Isotype</b>	IgG
<b>Recommend Usage</b>	Flow Cytometry The optimal working dilution should be determined by the end user.

<b>Storage Buffer</b>	1X PBS, 0.09% Sodium azide, 0.2% BSA
<b>Storage Instruction</b>	Store at 4°C. Do not freeze.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Flow Cytometry

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## Gene Info — SYK

<b>Entrez GeneID</b>	<a href="#">6850</a>
<b>Protein Accession#</b>	<a href="#">P43403;P43405</a>
<b>Gene Name</b>	SYK
<b>Gene Alias</b>	DKFZp313N1010, FLJ25043, FLJ37489
<b>Gene Description</b>	spleen tyrosine kinase
<b>Omim ID</b>	<a href="#">600085</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Other Designations</b>	OTTHUMP00000021627 OTTHUMP00000021628

## Gene Info — ZAP70

<b>Entrez GeneID</b>	<a href="#">7535</a>
<b>Protein Accession#</b>	<a href="#">P43403;P43405</a>
<b>Gene Name</b>	ZAP70
<b>Gene Alias</b>	FLJ17670, FLJ17679, SRK, STD, TZK, ZAP-70
<b>Gene Description</b>	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

## Pathway

- [B cell receptor signaling pathway](#)
- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Primary immunodeficiency](#)
- [T cell receptor signaling pathway](#)

## Disease

- [HIV Infections](#)
- [Lymphedema](#)
- [Lymphoproliferative Disorders](#)
- [Myelodysplastic Syndromes](#)
- [Tobacco Use Disorder](#)