

## ZAP70 Rabbit mAb

Catalog No: #49728

Package Size: #49728-1 50ul #49728-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

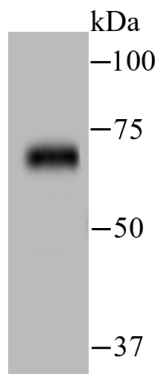
## Description

Product Name	ZAP70 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JU08-39
Purification	ProA affinity purified
Applications	WB,ICC,IHC,FC,IP
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Other Names	70 kDa zeta associated protein antibody 70 kDa zeta-associated protein antibody EC 2.7.10.2 antibody FLJ17670 antibody FLJ17679 antibody Selective T cell defect antibody SRK antibody STD antibody Syk related tyrosine kinase antibody Syk-related tyrosine kinase antibody Truncated ZAP kinase antibody Tyrosine protein kinase ZAP70 antibody Tyrosine-protein kinase ZAP-70 antibody TZK antibody ZAP 70 antibody ZAP70 antibody ZAP70_HUMAN antibody Zeta chain associated protein kinase 70kD antibody Zeta chain associated protein kinase 70kDa antibody Zeta chain associated protein kinase 70kDa isoform 1 antibody Zeta chain associated protein kinase 70kDa isoform 2 antibody Zeta chain of T cell receptor associated protein kinase 70 antibody Zeta chain TCR associated protein kinase 70kD antibody Zeta chain TCR associated protein kinase 70kDa antibody
Accession No.	Swiss-Prot#:P43403
Uniprot	P43403
GeneID	7535;
Calculated MW	70 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

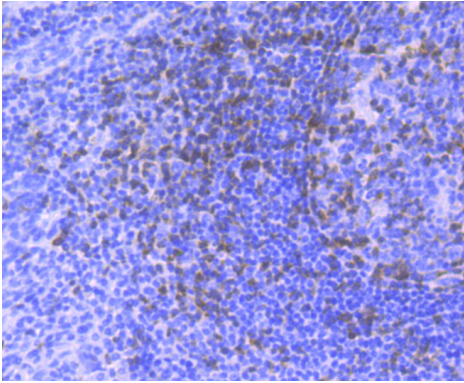
## Application Details

WB: 1:500-1:1,000IHC: 1:50-1:200ICC: 1:50-1:200IP: 1:10-1:50FC: 1:50-1:100

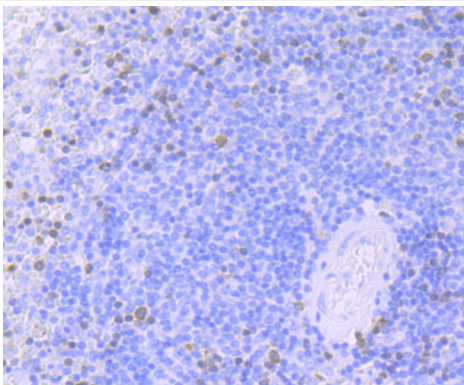
## Images



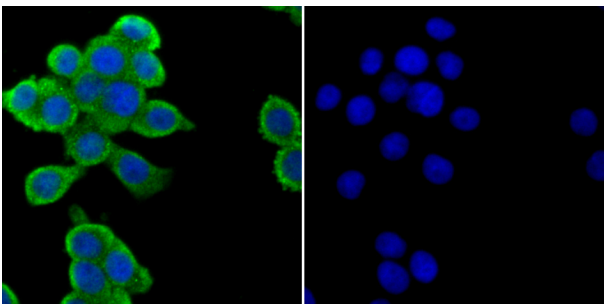
Western blot analysis of ZAP70 on human thymus tissue lysate using anti-ZAP70 antibody at 1/500 dilution.



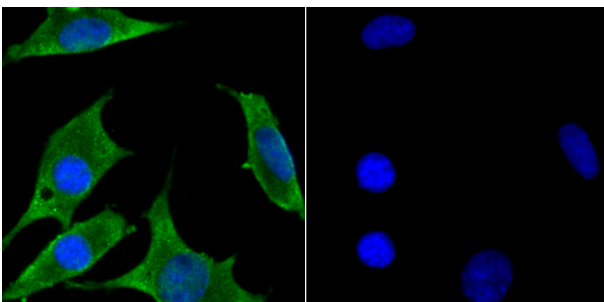
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-ZAP70 antibody. Counter stained with hematoxylin.



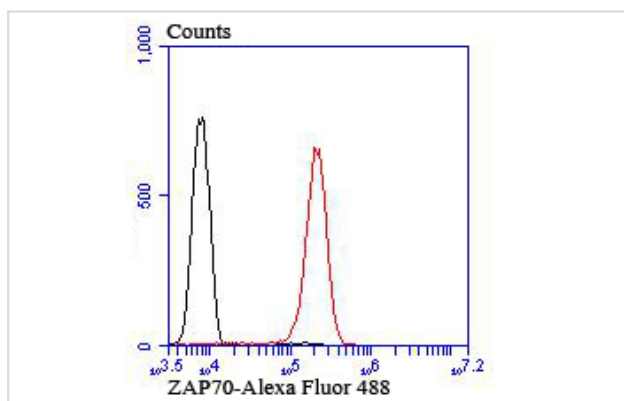
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-ZAP70 antibody. Counter stained with hematoxylin.



ICC staining ZAP70 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining ZAP70 in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Jurkat cells with ZAP70 antibody at 1/100 dilution (red) compared with an unlabeled control (cells without incubation with primary antibody; black). Alexa Fluor® 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

## Background

The activation of T lymphocytes by antigens is mediated by the T cell receptor (TCR) which is a multisubunit complex assembled from at least six different genes. The TCR subunits include the T $\alpha$  and  $\beta$  chains, the CD3  $\gamma$ ,  $\delta$  and  $\epsilon$  chains and a  $\zeta$ -containing homodimer or heterodimer. The disulfide-linked T $\alpha$ - $\beta$  heterodimer is responsible for antigen recognition, but the short 5 amino acid cytoplasmic domains of T $\alpha$  and  $\beta$  are unlikely to be sufficient to couple to intracellular signaling pathways. In contrast, the structured features of the CD3 and  $\zeta$  subunits suggest a role in signal transduction. Of these, the  $\zeta$  chain, which is expressed as either a homodimer or heterodimer, has a short extracellular domain of only 9 amino acids, but a larger 113 amino acid cytoplasmic domain. A tyrosine phosphoprotein, ZAP-70, has been identified that associates with  $\zeta$  and undergoes tyrosine phosphorylation following TCR stimulation.

## References

Note: This product is for in vitro research use only