

ZAP70 Rabbit mAb

Catalog No: #49728



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

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

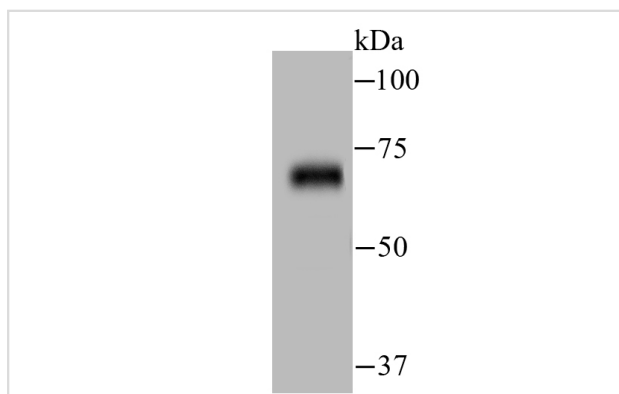
Description

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
Calculated MW	70 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

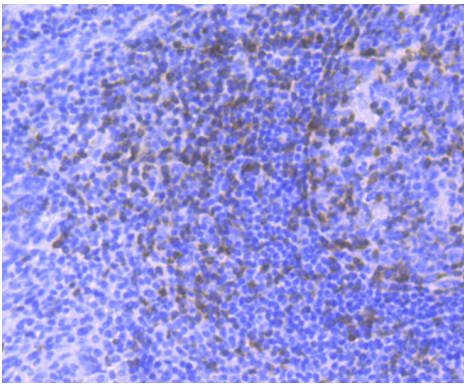
Application Details

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

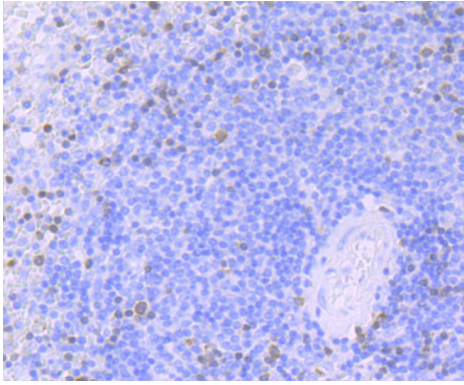
Images



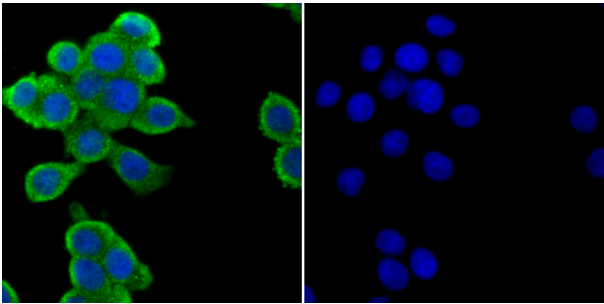
Western blot analysis of ZAP70 on human thymus tissue lysate using anti-ZAP70 antibody at 1/500 dilution.



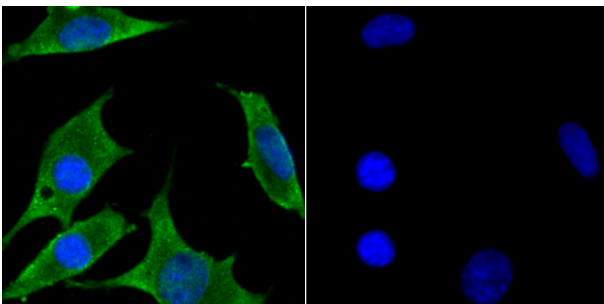
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-ZAP70 antibody. Counter stained with hematoxylin.



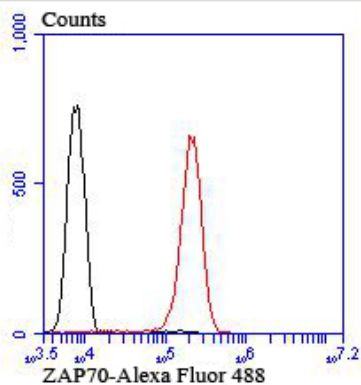
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-ZAP70 antibody. Counter stained with hematoxylin.



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 unlabelled 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 α and β chains, the CD3 γ , δ and ϵ chains and a ζ -containing homodimer or heterodimer. The disulfide-linked T α - β heterodimer is responsible for antigen recognition, but the short 5 amino acid cytoplasmic domains of T α and β are unlikely to be sufficient to couple to intracellular signaling pathways. In contrast, the structured features of the CD3 and ζ subunits suggest a role in signal transduction. Of these, the ζ 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 ζ and undergoes tyrosine phosphorylation following TCR stimulation.

References

1. Lupper ML et al. A novel phosphotyrosine-binding domain in the N-terminal transforming region of Cbl interacts directly and selectively with ZAP-70 in T cells. *The Journal of Biological Chemistry* 271 (39): 24063-8 (1996).
2. Han J et al. The SH3 domain-containing adaptor HIP-55 mediates c-Jun N-terminal kinase activation in T cell receptor signaling. *The Journal of Biological Chemistry* 278 (52): 52195-202 (2003).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.