



# ZAP-70 (ABT246) Mouse mAb

<b>Catalog No</b>	YP-Ab-15104
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human; Predict react with Mouse, Rat
<b>Applications</b>	IHC,WB
<b>Gene Name</b>	ZAP70 SRK
<b>Protein Name</b>	70 kDa zeta associated protein;70 kDa zeta-associated protein;EC 2.7.10.2;FLJ17670;FLJ17679;Selective T cell defect;SRK;STD;Syk related tyrosine kinase;Syk-related tyrosine kinase;Truncated ZAP kinase
<b>Immunogen</b>	Synthesized peptide derived from human ZAP-70
<b>Specificity</b>	The antibody can specifically recognize human ZAP-70 protein.In western blotting of Jurkat cell lysate, the antibody can label a 70 kDa band corresponding to ZAP-70.
<b>Formulation</b>	PBS, pH7.2, 0.03% Porcolin 300, containing stabilizing protein
<b>Source</b>	Mouse, Monoclonal/IgG1, Kappa
<b>Purification</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
<b>Dilution</b>	IHC-p 1:200-400,WB: 500-1000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	70 kDa zeta associated protein;70 kDa zeta-associated protein;EC 2.7.10.2;FLJ17670;FLJ17679;Selective T cell defect;SRK;STD;Syk related tyrosine kinase;Syk-related tyrosine kinase;Truncated ZAP kinase;Tyrosine protein kinase ZAP70;Tyrosine-protein kinase ZAP-70;TZK;ZAP 70;ZAP70;ZAP70_HUMAN;Zeta chain associated protein kinase 70kD;Zeta chain associated protein kinase 70 kDa;Zeta chain associated protein kinase 70 kDa isoform 1;Zeta chain associated protein kinase 70 kDa isoform 2;Zeta chain of T cell receptor associated protein kinase 70;Zeta chain TCR associated protein kinase 70kD;Zeta chain TCR associated protein kinase 70 kDa
<b>Observed Band</b>	
<b>Cell Pathway</b>	Cytoplasmic, Nuclear
<b>Tissue Specificity</b>	Tonsil/ Appendix
<b>Function</b>	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:Defects in ZAP70 are the cause of selective T-cell defect



(STD) [MIM:176947]. STD is an autosomal recessive form of severe combined immunodeficiency characterized by a selective absence of CD8-type T-cells.,domain:The SH2 domain binds to the phosphorylated tyrosine-based activation motif (TAM) of CD3Z.,function:Plays a role in T-cell development and lymphocyte activation. Essential for TCR-mediated IL-2 production. Isoform 1 induces TCR-mediated signal transduction, isoform 2 does not.,online information:ZAP70 mutation db,PTM:Phosphorylated on tyrosine residues upon T-cell antigen receptor (TCR) stimulation. Tyr-319 phosphorylation is essential for full activity.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. SYK/ZAP-70 subfamily.,similarity:Contains 1 prote

**Background**

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, Jul 2008],

**matters needing attention**

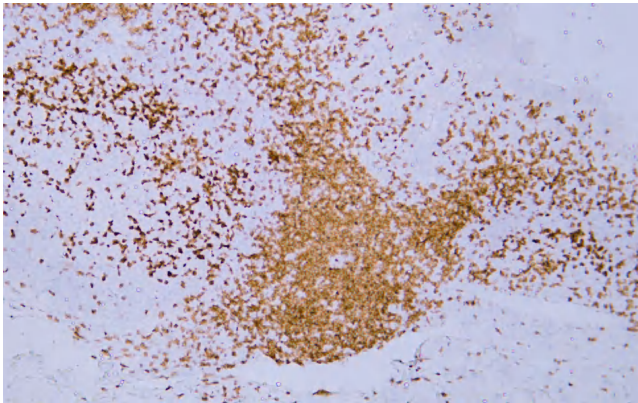
Avoid repeated freezing and thawing!

**Usage suggestions**

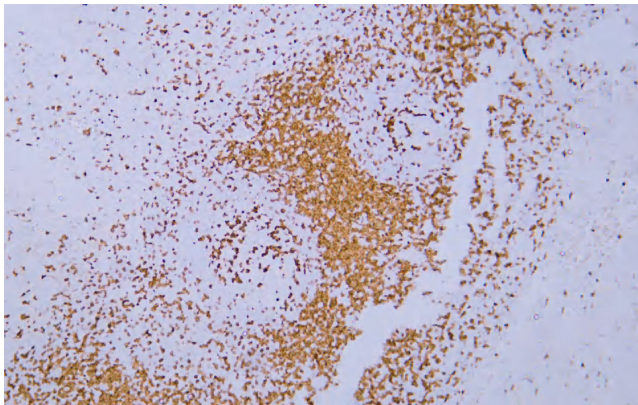
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



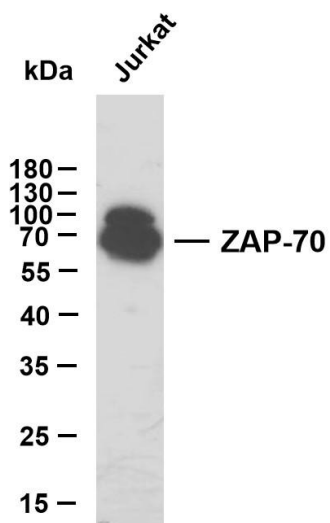
## Products Images



Human appendix tissue was stained with Anti-ZAP-70 (ABT246) Antibody



Human tonsil tissue was stained with Anti-ZAP-70 (ABT246) Antibody



Jurkat whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-ZAP-70(ABT246)antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: Jurkat Predicted band size: 70kDa Observed band size: 70kDa