

## ZAP-70 (ABT246) Mouse mAb

CatalogNo: YM4347

### | Key Features

#### Host Species

- Mouse

#### Reactivity

- Human, Mouse

#### Applications

- IHC, WB, IF, ELISA

#### MW

- 70kD (Calculated)  
70kD (Observed)

#### Isotype

- IgG1, Kappa

### | Recommended Dilution Ratios

**IHC 1:200-1000**

**WB 1:500-2000**

**IF 1:100-500**

**ELISA 1:1000-5000**

### | Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

### | Basic Information

**Clonality** Monoclonal

**Clone Number** ABT246

### | Immunogen Information

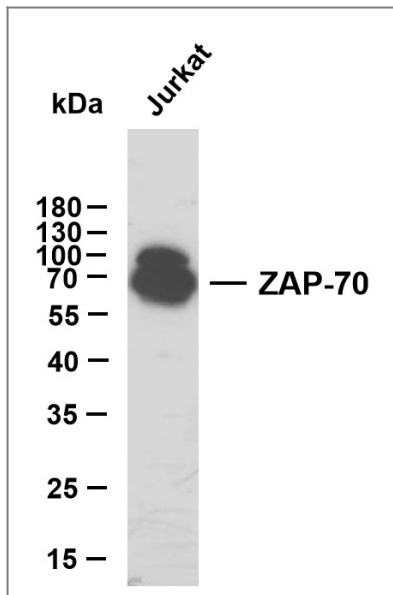
**Immunogen** Synthesized peptide derived from human ZAP-70 AA range: 550-619

**Specificity** 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.

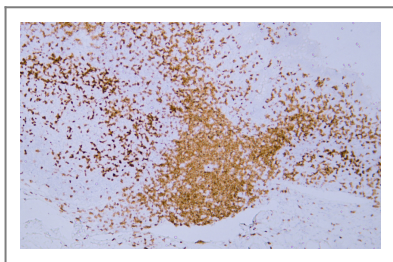
## | Target Information

Gene name	ZAP70 SRK		
Protein Name	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		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">7535;</a>	<a href="#">P43403;</a>
	Mouse	<a href="#">22637;</a>	<a href="#">P43404;</a>
Cellular Localization	Cytoplasmic, Nuclear		
Tissue specificity	Tonsil/ Appendix		
Function	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 protein kinase domain.,similarity:Contains 2 SH2 domains.,subcellular location:After antigen stimulation, isoform 1 concentrates at the immunological synapse and isoform 2 remains cytoplasmic.,subunit:Interacts with SLA2 when it is phosphorylated. Interacts with CD3Z and with phosphorylated NFAM1. Interacts with CBLB (By similarity). Interacts with CBL and SLA when it is phosphorylated. The association with SLA (or SLA2) and CBL probably leads to its destruction. Interacts with SHB. Interacts with DEF6 (By similarity). Interacts with FCRL3.,tissue specificity:Expressed in T- and natural killer cells.,		

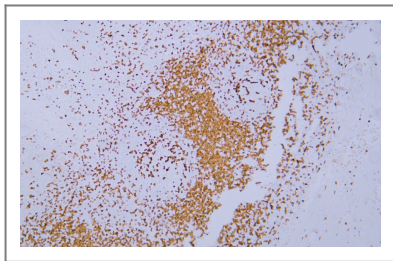
## | Validation Data



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



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



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

## Contact information

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Please scan the QR code to access additional product information:  
**ZAP-70 (ABT246)**  
**Mouse mAb**

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