

Rabbit ZAP70 Polyclonal Antibody | anti-ZAP70 antibody

Anti-ZAP70 Antibody

CATALOG # AAA46629	HOST Rabbit	REACTIVITY Human No cross reactivity with other proteins.	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

ZAP70; Polyclonal Antibody; Anti-ZAP70 Antibody; SRK; STD; TZK; ZAP-70; ZAP 70; P43403; Tyrosine-protein kinase ZAP-70; zeta chain of T cell receptor associated protein kinase 70kDa; anti-ZAP70 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	619
Applicable Applications for anti-ZAP70 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human ZAP70 (359-393aa MRKKQIDVAIKVLKQGTEKADTEEMMREAQIMHQL), different from the related mouse sequence by two amino acids.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

ZAP70 was detected in paraffin-embedded sections of human tonsil tissues using rabbit anti-ZAP70 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)

Western blot analysis of ZAP70 expression in JURKAT whole cell lysates (lane 1) and CEM whole cell lysates (lane 2). ZAP70 at 70KD was detected using rabbit anti- ZAP70 Antigen Affinity purified polyclonal antibody at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-ZAP70 antibody	Rabbit IgG polyclonal antibody for Tyrosine-protein kinase ZAP-70 (ZAP70) detection. Background: ZAP-70 (Zeta-chain-associated protein kinase 70) 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.
References	1. Lupher ML, Reedquist KA, Miyake S, Langdon WY, Band H (Sep 1996). "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. 2. Meng W, Sawasdikosol S, Burakoff SJ, Eck MJ (Mar 1999). "Structure of the amino-terminal domain of Cbl complexed to its binding site on ZAP-70 kinase". Nature 398 (6722): 84-90. 3. Neumeister EN, Zhu Y, Richard S, Terhorst C, Chan AC, Shaw AS (Jun 1995). "Binding of ZAP-70 to phosphorylated T-cell receptor zeta and eta enhances its autophosphorylation and generates specific binding sites for SH2 domain-containing proteins". Molecular and Cellular Biology 15 (6): 3171-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31455611
NCBI GeneID	7535
NCBI Accession #	NP_001070.2
NCBI GenBank Nucleotide #	NM_001079.3
UniProt Accession #	P43403; Q6PIA4; Q8IXD6; Q9UBS6; A6NFP4
Molecular Weight	55,873 Da
NCBI Official Full Name	tyrosine-protein kinase ZAP-70 isoform 1
NCBI Official Synonym Full Names	zeta chain of T cell receptor associated protein kinase 70
NCBI Official Symbol	ZAP70
NCBI Official Synonym Symbols	SRK; STD; TZK; STCD; IMD48; ADMIO2; ZAP-70
NCBI Protein Information	tyrosine-protein kinase ZAP-70
UniProt Protein Name	Tyrosine-protein kinase ZAP-70
UniProt Gene Name	ZAP70
UniProt Synonym Gene Names	SRK
UniProt Entry Name	ZAP70_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/zap70-antibody-immunohistochemistry-western-blot-elisa/46629>