

Rabbit anti-Human ZAP70 Polyclonal Antibody | anti-ZAP70 antibody

Rabbit anti-Phospho ZAP70 (Y319) Antibody, Affinity Purified

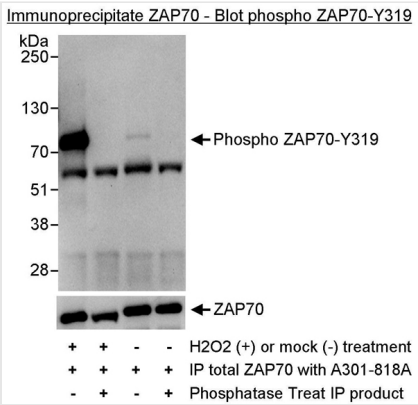
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA211718	Rabbit	Human	Flow Cytometry, Functional Assay, Immunoprecipitation

PRODUCT SYNONYMS

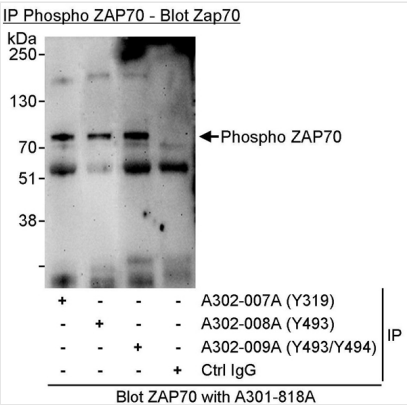
ZAP70; Polyclonal Antibody; Rabbit anti-Phospho ZAP70 (Y319) Antibody; Affinity Purified; Phospho (Y319); ZAP-70; syk-related tyrosine kinase; zeta chain of T cell receptor associated protein kinase 70kDa; TZK; tyrosine-protein kinase ZAP-70; zeta-chain associated protein kinase; 70kD; STCD; SRK; IMD48; ADMIO2; 70 kDa zeta-chain associated protein; 70 kDa zeta-associated protein; zeta-chain (TCR) associated protein kinase 70kDa; STD; Tyrosine-protein kinase ZAP-70; zeta chain of T cell receptor associated protein kinase 70; anti-ZAP70 antibody

PRODUCT SPECIFICATIONS

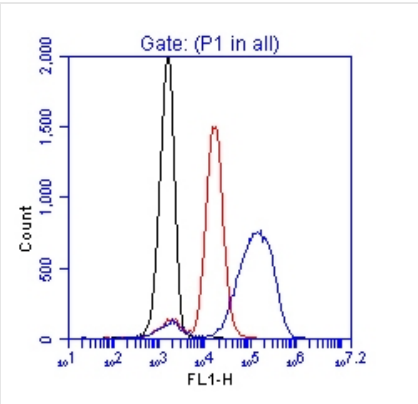
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Concentration	1000ug/ml (varies by lot)
Applicable Applications for anti-ZAP70 antibody	FCM/FACS (Flow Cytometry), IP (Immunoprecipitation)
Predicted Reactivity	Mouse
Immunogen	Surrounding tyrosine 319
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt



IP (Immunoprecipitation)
Detection of Phosphorylation of human ZAP70 on Y319 by western blot of immunoprecipitates. Samples: Whole cell lysate (1 mg for IP, 20% of IP loaded) from Jurkat cells that had been treated with hydrogen peroxide (+) or mock treated (-). Antibodies: ZAP70 antibody was used at 3 ug/mg lysate to immunoprecipitate ZAP70. The immunoprecipitates were treated with phosphatase (+) or mock (-) treated. For blotting immunoprecipitated Phospho ZAP70, Phospho ZAP70 (Y319) antibody AAA211718 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



IP (Immunoprecipitation)
Detection of Phosphorylation of human ZAP70 on Y319, Y493 or Y493/Y494 by western blot of immunoprecipitates. Samples: Whole cell lysate (1 mg for IP, 20% of IP loaded) from Jurkat cells that had been treated with hydrogen peroxide. Antibodies: Phospho ZAP70 antibodies AAA211718 (phosphorylation at Y319), (phosphorylation at Y493), and (phosphorylation at Y493/Y494) used for IP at 3 ug/mg lysate. For blotting immunoprecipitated Phospho ZAP70, ZAP70 antibody was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 min.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of phospho-Zap70 (Y319). Jurkat cells were treated with H2O2 for 3 minutes. Cells were fixed in 1.5% PFA, permeabilized in 90%, and 1 X 10⁶ cells stained with 1.0 ug/ml Phospho Zap70 (Y319) antibody AAA211718 in a 150 ul volume. Isotype anti-KLH control (black) in H2O2 treated cells, anti-phospho Zap70 (Y319) in untreated cells (red), anti-phospho Zap70 (Y319) in H2O2 treated (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-ZAP70 antibody	ZAP-70 (zeta associated protein 70) is a tyrosine kinase of the Src family of tyrosine kinases. It was initially identified as a partner of the zeta chain of the CD3 complex associated to the T-cell receptor on T-lymphocytes. ZAP-70 shares homology with spleen-tyrosine kinase (Syk), a kinase involved in B-cell activation. Both ZAP-70 and Syk have been shown to be crucial to B- and T-lymphocyte development. In T-cells ZAP-70 functions to transduce the signaling cascade activated by T-cell receptor engagement and activation.
Product Categories/Family for anti-ZAP70 antibody	Primary Antibodies

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	69,872 Da
NCBI Official Full Name	tyrosine-protein kinase ZAP-70 isoform 1
NCBI Official Synonym Full Names	zeta-chain (TCR) associated protein kinase 70kDa
NCBI Official Symbol	ZAP70
NCBI Official Synonym Symbols	SRK; STD; TZK; STCD; ZAP-70
NCBI Protein Information	tyrosine-protein kinase ZAP-70; syk-related tyrosine kinase; 70 kDa zeta-associated protein; 70 kDa zeta-chain associated protein; zeta-chain associated protein kinase, 70kD
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-flow-cytometry-immunoprecipitation-elisa/211718>