



ZAP-70 (phospho Tyr493) Polyclonal Antibody

Catalog No	BYab-14351
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	ZAP70
Protein Name	Tyrosine-protein kinase ZAP-70
Immunogen	The antiserum was produced against synthesized peptide derived from human ZAP-70 around the phosphorylation site of Tyr493. AA range:460-509
Specificity	Phospho-ZAP-70 (Y493) Polyclonal Antibody detects endogenous levels of ZAP-70 protein only when phosphorylated at Y493.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000 IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Purity Storage Stability	≥90% -20°C/1 year
Storage Stability	-20°C/1 year ZAP70; SRK; Tyrosine-protein kinase ZAP-70; 70 kDa zeta-chain associated
Storage Stability Synonyms	-20°C/1 year ZAP70; SRK; Tyrosine-protein kinase ZAP-70; 70 kDa zeta-chain associated protein; Syk-related tyrosine kinase
Storage Stability Synonyms Observed Band	-20°C/1 year ZAP70; SRK; Tyrosine-protein kinase ZAP-70; 70 kDa zeta-chain associated protein; Syk-related tyrosine kinase 70kD Cytoplasm . Cell membrane ; Peripheral membrane protein . In quiescent T-lymphocytes, it is cytoplasmic. Upon TCR activation, it is recruited at the plasma membrane by interacting with CD247/CD3Z. Colocalizes together with RHOH in the immunological synapse. RHOH is required for its proper localization to the cell

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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],

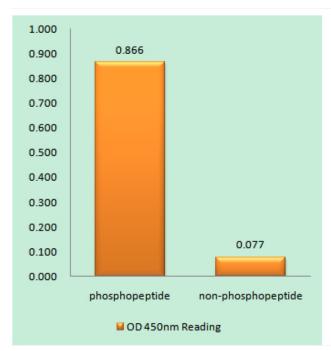
matters needing attention

Avoid repeated freezing and thawing!

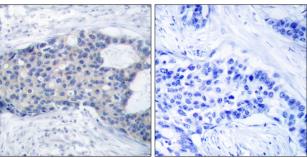
Usage suggestions

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

Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using ZAP-70 (Phospho-Tyr493) Antibody



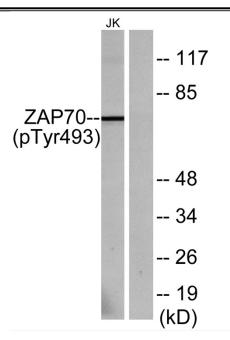
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using ZAP-70 (Phospho-Tyr493) Antibody. The picture on the right is blocked with the phospho peptide.

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Western blot analysis of lysates from Jurkat cells, using ZAP-70 (Phospho-Tyr493) Antibody. The lane on the right is blocked with the phospho peptide.

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