Anti-Phospho-ZAP70 (Tyr493) Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P108935

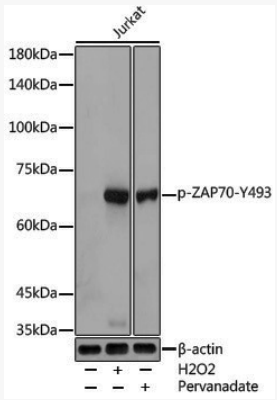
Product Information

Application	WB, IHC-P, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:500~1:1000; IHC-P 1:50~1:100; IF 1:50~1:200
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphorylated peptide around Y493 of human ZAP70 (NP_001070.2).
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-ZAP70 (Tyr493) Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

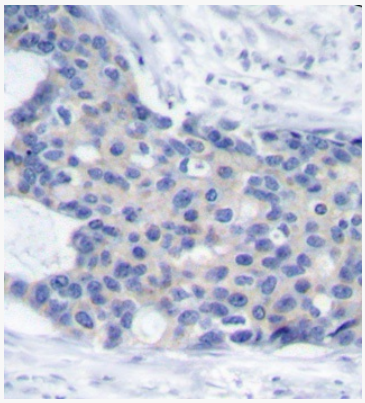
Protein Information

Synonyms	SRK; STD; TZK; STCD; IMD48; ADMIO2; ZAP-70; Phospho-ZAP70-Y493.
Calculated MW	Calculated MW: 70 kDa; Observed MW: 70 kDa
Uniprot ID	P43403
Gene ID	7535
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.

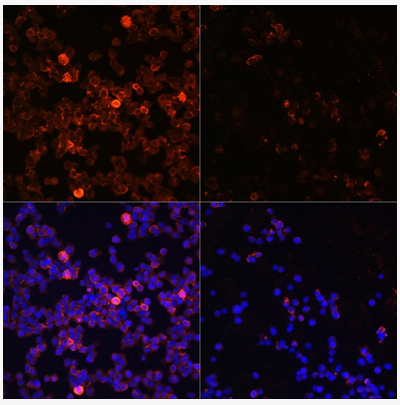
Validation Images



Western blot analysis of lysates from Jurkat cells, using Phospho-ZAP70-Y493 Rabbit pAb (P108935) at 1:1,000 dilution. Jurkat cells were treated by Hydrogen Peroxide (2 mM) at 37°C for 2 minutes after serum-starvation overnight or treated by Pervanadate (1 mM) at 37°C for 30 minutes.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit.
Exposure time: 1s.



Immunohistochemistry analysis of paraffin-embedded Human breast carcinoma tissue, using Phospho-ZAP70-Y493 Rabbit pAb (P108935). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunofluorescence analysis of Jurkat cells using Phospho-ZAP70-Y493 Rabbit pAb (P108935) at dilution of 1:100 (40× lens).Jurkat cells were treated by Hydrogen Peroxide (2 mM) at 37°C for 2 minutes after serum-starvation overnight. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.