

Phospho-ZAP70-Y493 Rabbit pAb

Catalog No.: AP0468

Basic Information

Observed MW

70kDa

Calculated MW

35kDa/55kDa/69kDa

Category

Primary antibody

Applications

WB,IHC,IF/ICC

Cross-Reactivity

Human, Mouse, Rat

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.

Recommended Dilutions

WB	1:2000 - 1:5000
IHC	1:50 - 1:100
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID	Swiss Prot
7535	P43403

Immunogen

A synthetic phosphorylated peptide around Y493 of human ZAP70 (NP_001070.2).

Synonyms

ZAP70;ADMIO2;IMD48;SRK;STCD;STD;TZK;ZAP-70

Contact

 | www.abclonal.com

Product Information

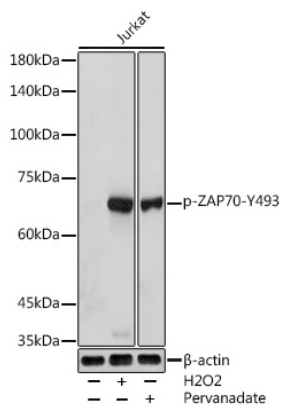
Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

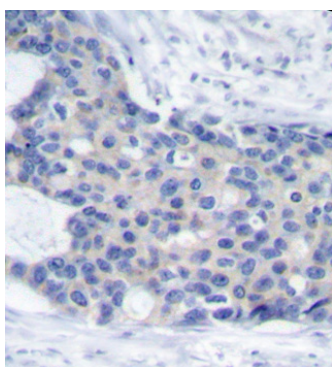
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thiomersal,50% glycerol,pH7.3.

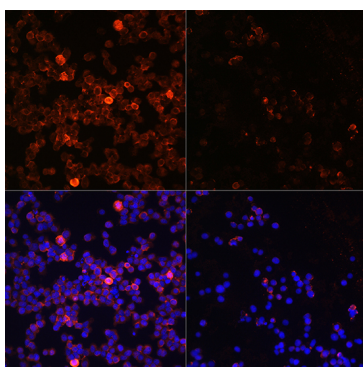
Validation Data



Western blot analysis of extracts of Jurkat cells, using Phospho-ZAP70-Y493 antibody (AP0468) at 1:1000 dilution. Jurkat cells were treated by Hydrogen Peroxide (2 mM) at 37°C for 2 minutes after serum-starvation overnight. Jurkat cells were treated by Pervanadate (1 mM) at 37°C for 30 minutes. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Immunohistochemistry of paraffin-embedded human breast carcinoma tissue, using Phospho-ZAP70-Y493 antibody (AP0468). Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunofluorescence analysis of Jurkat cells using Phospho-ZAP70-Y493 Rabbit pAb (AP0468) at dilution of 1:100 (40x lens). Jurkat cells were treated by Hydrogen Peroxide (2 mM) at 37°C for 2 minutes after serum-starvation overnight. Blue: DAPI for nuclear staining.