

AP0468

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Phospho-ZAP70-Y493 Rabbit pAb

Catalog No.: AP0468

Basic Information

Observed MW

70kDa

Calculated MW

70kDa

Category

Polyclonal Antibody

Applications

WB,IHC-P,IF/ICC,ELISA

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 1:500 - 1:1000

IHC-P 1:50 - 1:100

IF/ICC 1:50 - 1:200

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

7535

Swiss Prot

P43403

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

SRK; STD; TZK; STCD; IMD48; ADMIO2; ZAP-70; Phospho-ZAP70-Y493

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

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

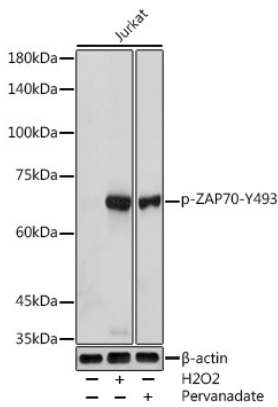
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact



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Validation Data



Western blot analysis of lysates from Jurkat cells, using Phospho-ZAP70-Y493 Rabbit pAb (AP0468) at 1:1000 dilution. Jurkat cells were treated with Hydrogen Peroxide (2 mM) at 37°C for 2 minutes after serum-starvation overnight or treated with Pervanadate (1 mM) at 37°C for 30 minutes.

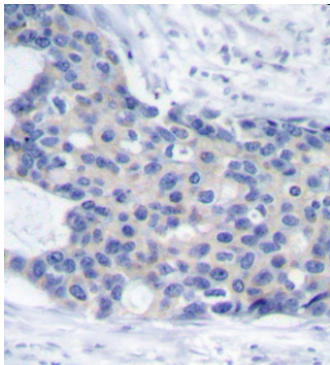
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

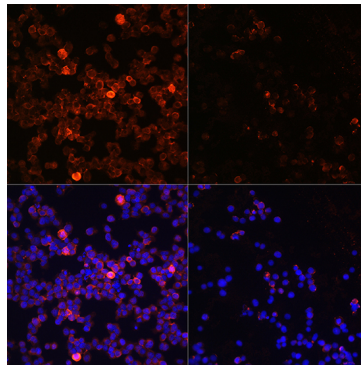
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



Immunohistochemistry analysis of paraffin-embedded Human breast carcinoma tissue, using Phospho-ZAP70-Y493 Rabbit pAb (AP0468). 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 (AP0468) at dilution of 1:100 (40x lens). Jurkat cells were treated with Hydrogen Peroxide (2 mM) at 37°C for 2 minutes after serum-starvation overnight. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.