Phospho ZAP70 (Y493/Y494) Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Catalog No. A302-009A

Lot No. A302-009A-1

Protein ID NP_001070.2

GeneID 7535

APPLICATIONS	IP
SPECIES REACTIVITY	Human
PRESUMED REACTIVITY	Based on 100% sequence identity, this antibody is predicted to react with Mouse
AMOUNT	100 µl
CONCENTRATION	1000 µg/ml
STORAGE/SHELF LIFE	2 - 8° C / 1 year from date of receipt
PHYSICAL STATE	Liquid
BUFFER	Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
ISOTYPE	IgG
ORIGIN	USA
PRODUCTION PROCEDURES	Antibody was affinity purified using an epitope specific to Phospho ZAP70 (Y493/Y494) immobilized on solid support. The epitope recognized by A302-009A maps to a region including tyrosines 493 and 494 (when they are phosphorylated) of human zeta-chain (TCR) associated protein kinase 70kDa using the numbering given in entry NP_001070.2 (GeneID 7535). Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.
APPLICATIONS	Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.

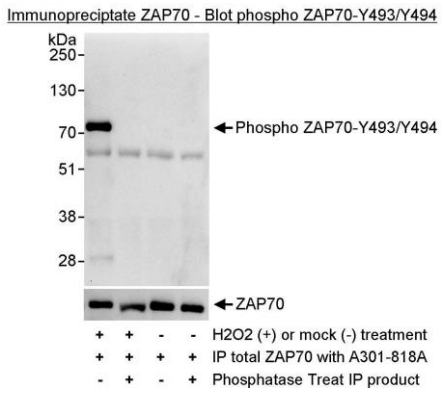
Western Blot	Not recommended. A302-009A has not performed satisfactorily when used for WB of phospho ZAP70 in crude preparations (e.g. whole cell lysate). This antibody can be used for WB of enriched (e.g. immunoprecipitated) sources of ZAP70.
Immunoprecipitation	2 - 5 µg/mg lysate

APPLICATION NOTES	Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100-020), Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 4-8% SDS-PAGE (link to IP-western blot protocol in Additional Info section below).
ADDITIONAL INFO	https://www.bethyl.com/product/A302-009A Use the link above to view SDS, a current list of citations, and other product specific information. IP-western blot protocol: https://www.bethyl.com/content/protocol_IP_WB

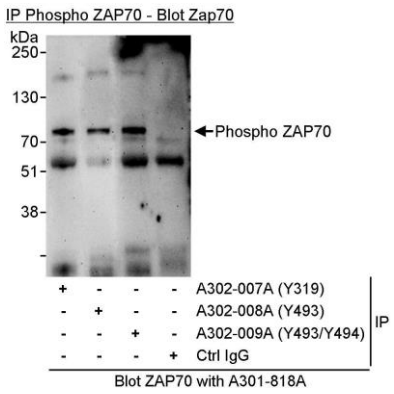
This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.

Eric McIntush, PhD | Chief Scientific Officer

Date: June 21, 2019



Detection of Phosphorylation of human ZAP70 on 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 (+) or mock treated (–). *Antibodies:* Affinity purified rabbit anti-ZAP70 antibody A301-818A was used at 3 µg/mg lysate to immunoprecipitate ZAP70. The immunoprecipitates were treated with phosphatase (+) or mock (–) treated. For blotting immunoprecipitated Phospho ZAP70, anti-Phospho ZAP70 (Y493/Y494) antibody A302-009A was used at 1 µg/ml. *Detection:* Chemiluminescence with an exposure time of 10 seconds.



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:* Affinity purified rabbit anti-Phospho ZAP70 antibodies A302-007A (for phosphorylation at Y319), A302-008A (for phosphorylation at Y493), and A302-009A (for phosphorylation at Y493/Y494) used for IP at 3 µg/mg lysate. For blotting immunoprecipitated Phospho ZAP70, antibody A301-818A (for total ZAP70) was used at 1 µg/ml. *Detection:* Chemiluminescence with an exposure time of 3 minutes.