

14-3-3 Sigma Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Protein ID NP_006133.1

Catalog No. A301-648A

GeneID 2810

Lot No. A301-648A-4



APPLICATIONS WB, IP, IHC

SPECIES REACTIVITY Human

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 14-3-3 Sigma immobilized on solid support.

The epitope recognized by A301-648A maps to a region between residue 198 and 248 of human 14-3-3 sigma using the numbering given in entry NP_006133.1 (GeneID 2810).

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 1:10,000 - 1:25,000

Immunoprecipitation 2 - 10 µg/mg lysate

Immunohistochemistry 1:2,000 to 1:10,000. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

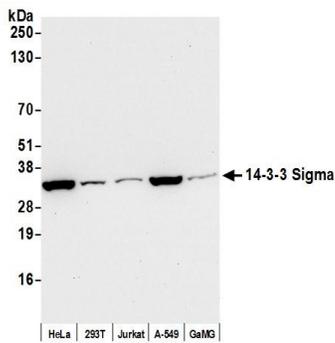
APPLICATION NOTES Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100-020), Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 4-20% SDS-PAGE (link to IP-western blot protocol in Additional Info section below).

IHC HUMAN CONTROLS Western blot of lysates performed using standard western blot reagents and 4-20% SDS-PAGE. Breast Carcinoma, Colon Carcinoma, Ovarian Carcinoma, Prostate Carcinoma, Skin Basal Cell Carcinoma

ADDITIONAL INFO <https://www.bethyl.com/product/A301-648A>

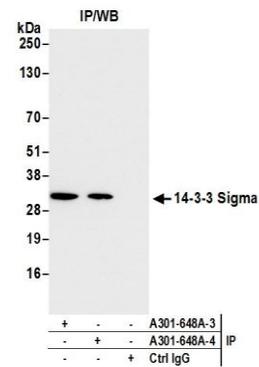
Use the link above to view SDS, a current list of citations, and other product specific information. IP-western blot protocol https://www.bethyl.com/content/protocol_IP_WB

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: September 6, 2019



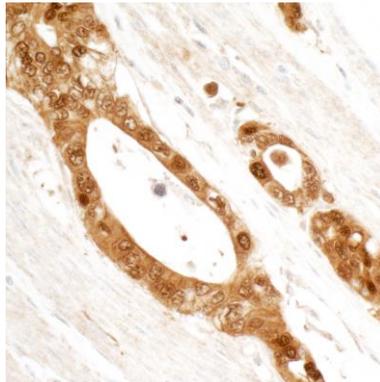
Detection of human 14-3-3 Sigma by western blot.

Samples: Whole cell lysate (50 µg) from HeLa, HEK293T, Jurkat, A-549, and GaMG cells prepared using NETN lysis buffer. *Antibody:* Affinity purified rabbit anti-14-3-3 Sigma antibody A301-648A (lot A301-648A-4) used for WB at 0.04 µg/ml. *Detection:* Chemiluminescence with an exposure time of 30 seconds.



Detection of human 14-3-3 Sigma by western blot of immunoprecipitates.

Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. *Antibodies:* Affinity purified rabbit anti-14-3-3 Sigma antibody A301-648A (lot A301-648A-4) used for IP at 6 µg per reaction. 14-3-3 Sigma was also immunoprecipitated by a previous lot of this antibody (lot A301-648A-3). For blotting immunoprecipitated 14-3-3 Sigma, A301-648A was used at 0.04 µg/ml. *Detection:* Chemiluminescence with an exposure time of 1 second.



Detection of human 14-3-3 Sigma by immunohistochemistry.

Sample: FFPE section of human ovarian carcinoma. *Antibody:* Affinity purified rabbit anti-14-3-3 Sigma (Cat. No. A301-648A lot 4) used at a dilution of 1:5,000 (0.2µg/ml). *Detection:* DAB