

Cytoskeletal Actin Antibody

Rabbit Polyclonal

Antigen Affinity Purified Protein ID P60709

Catalog No. A300-491A GeneID 60

Lot No. A300-491A-18

APPLICATIONS	WB, IHC
SPECIES REACTIVITY	Human, Mouse
PRESUMED REACTIVITY	Based on 100% sequence identity, this antibody is predicted to react with Rat, X. tropicalis, Chicken, Sheep, Bovine, Dog, Horse, Rabbit, Guinea pig_10141, Pig, Golden hamster, Orangutan and Chimpanzee
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 Cytoskeletal Actin immobilized on solid support.

The epitope recognized by A300-491A maps to the N-terminus of human Beta-actin using the numbering given in Swiss-Prot entry P60709 (GeneID 60). The N-terminus of Beta-Actin is highly conserved with Gamma-Actin and preliminary indications are that A300-491A also recognizes Gamma-Actin (GeneID 71).

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 Not recommended

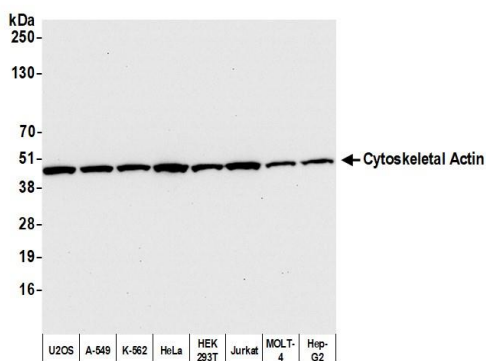
Immunohistochemistry 1:1,000 to 1:5,000. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

IHC HUMAN CONTROLS Breast Carcinoma, Colon Carcinoma, Ovarian Carcinoma, Prostate Carcinoma

ADDITIONAL INFO <https://www.bethyl.com/product/A300-491A>

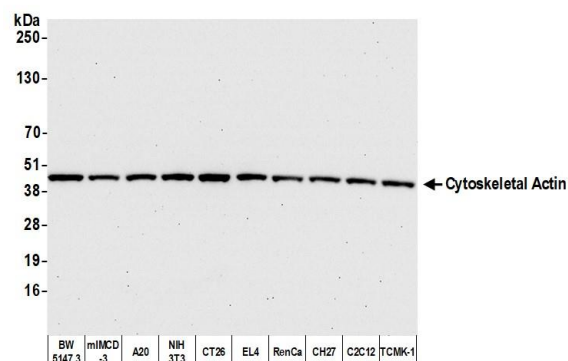
Use the link above to view SDS, a current list of citations, and other product specific information.

This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.
Michael Spencer, PhD Date: April 14, 2022



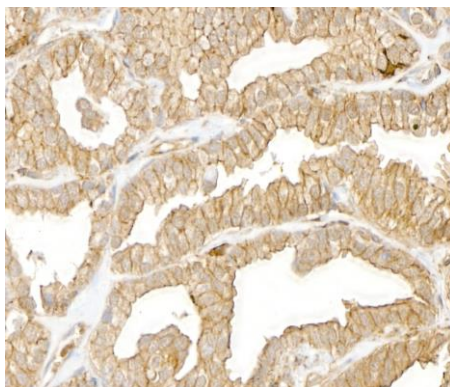
Detection of human Cytoskeletal Actin by western blot.

Samples: Whole cell lysate (10 µg) from U2OS, A-549, K-562, HeLa, HEK293T, Jurkat, MOLT-4, and Hep-G2 cells prepared using NETN lysis buffer. *Antibody:* Affinity purified rabbit anti-Cytoskeletal Actin antibody A300-491A Lot 18 used for WB at 0.04 µg/ml. *Detection:* Chemiluminescence with an exposure time of 10 seconds.



Detection of mouse Cytoskeletal Actin by western blot.

Samples: Whole cell lysate (10 µg) from BW5147.3, mIMCD-3, A20, NIH 3T3, CT26, EL4, RenCa, CH27, C2C12, and TCMK-1 cells prepared using NETN lysis buffer. *Antibody:* Affinity purified rabbit anti-Cytoskeletal Actin antibody A300-491A Lot 18 used for WB at 0.04 µg/ml. *Detection:* Chemiluminescence with an exposure time of 30 seconds.



Detection of human Cytoskeletal Actin by immunohistochemistry. *Sample:* FFPE section of human prostate cancer. *Antibody:* Affinity purified rabbit anti-Cytoskeletal Actin (A300-491A Lot 18) used at 1:1,000 (1 µg/ml). *Detection:* DAB