

# mTOR Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Protein ID NP\_004949.1

Catalog No. A300-503A

GeneID 2475

Lot No. A300-503A-8



APPLICATIONS	WB, IP, ICC
SPECIES REACTIVITY	Human
PRESUMED REACTIVITY	Based on 100% sequence identity, this antibody is predicted to react with Mouse and Rat
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 mTOR immobilized on solid support.

The epitope recognized by A300-503A maps to a region between residue 200 and 250 of human Mammalian Target of Rapamycin using the numbering given in entry NP\_004949.1 (GeneID 2475).

Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.

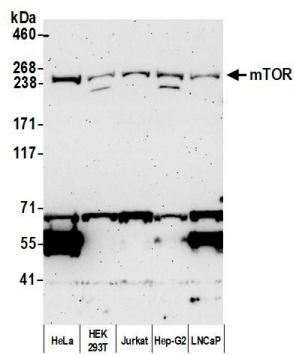
**APPLICATIONS** Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.

Western Blot	1:2,000 – 1:10,000
Immunoprecipitation	2 – 10 µg/mg lysate
Immunocytochemistry	1:100

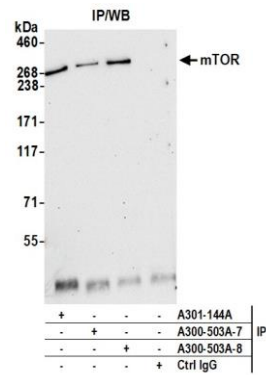
**ADDITIONAL INFO** <https://www.bethyl.com/product/A300-503A>

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](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.  
Brian McWilliams, PhD Date: January 27, 2021



**Detection of human mTOR by western blot.** *Samples:* Whole cell lysate (50 µg) from HeLa, HEK293T, Jurkat, Hep-G2, and LNCaP cells prepared using NETN lysis buffer. *Antibody:* Affinity purified rabbit anti-mTOR antibody A300-503A lot 8 used for WB at 0.1 µg/ml. *Detection:* Chemiluminescence with an exposure time of 3 minutes.



**Detection of human mTOR 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-mTOR antibody (A300-503A lot 8) used for IP at 6 µg per reaction. mTOR was also immunoprecipitated by a previous lot of this antibody (A300-503A lot 7) and rabbit anti-mTOR antibody (A301-144A). For blotting immunoprecipitated mTOR, A300-503A was used at 0.1 µg/ml. *Detection:* Chemiluminescence with an exposure time of 30 seconds.