

MARS Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Protein ID NP_004981.2

Catalog No. A303-961A

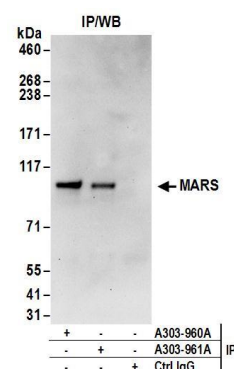
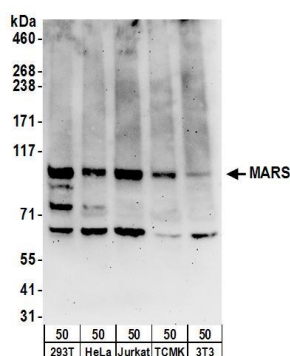
GeneID 4141

Lot No. A303-961A-1



APPLICATIONS	WB, IP, IHC
SPECIES REACTIVITY	Human, 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	<p>Antibody was affinity purified using an epitope specific to MARS immobilized on solid support.</p> <p>The epitope recognized by A303-961A maps to a region between residue 650 to 700 of human Methionyl-tRNA Synthetase using the numbering given in entry NP_004981.2 (GeneID 4141).</p> <p>Antibody concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.</p>
APPLICATIONS	<p>Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.</p> <p>Western Blot 1:1,000 - 1:5,000</p> <p>Immunoprecipitation 2 - 10 µg/mg lysate</p> <p>Immunohistochemistry 1:500 - 1:2,000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.</p>
APPLICATION NOTES	<p>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).</p> <p>Western blot of lysates performed using standard western blot reagents and 4-8% SDS-PAGE.</p>
IHC HUMAN CONTROLS	Breast Carcinoma, Ovarian Carcinoma
ADDITIONAL INFO	<p>https://www.bethyl.com/product/A303-961A</p> <p>Use the link above to view SDS, a current list of citations, and other product specific information.</p> <p>IP-western blot protocol: https://www.bethyl.com/content/protocol_IP_WB</p>

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 human and mouse MARS by western blot.

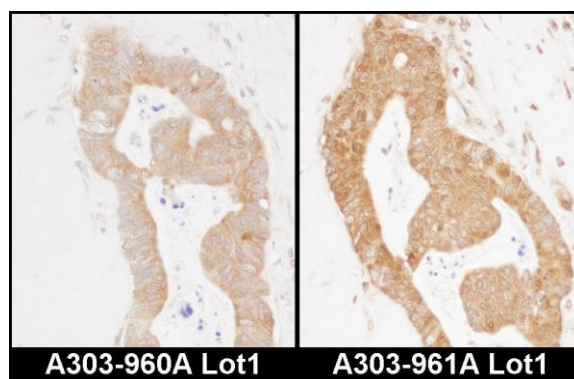
Samples: Whole cell lysate (50 µg) from HEK293T, HeLa, Jurkat, mouse TCMK-1, and mouse NIH 3T3 cells.

Antibodies: Affinity purified rabbit anti-MARS antibody A303-961A (lot A303-961A-1) used for WB at 0.4 µg/ml.

Detection: Chemiluminescence with an exposure time of 3 minutes.

Detection of human MARS by western blot of immunoprecipitates.

Samples: Whole cell lysate (1 mg for IP; 20% of IP loaded) from HEK293T cells. *Antibodies:* Affinity purified rabbit anti-MARS antibody A303-961A (lot A303-961A-1) used for IP at 6 µg/mg lysate. MARS was also immunoprecipitated by rabbit anti-MARS antibody A303-960A. For blotting immunoprecipitated MARS, A303-961A was used at 1 µg/ml. *Detection:* Chemiluminescence with an exposure time of 30 seconds.



Detection of human MARS by immunohistochemistry.

Samples: FFPE serial sections of human ovarian carcinoma.

Antibody: Affinity purified rabbit anti-MARS (Cat. No. A303-960A Lot1, left image and Cat. No. A303-961A Lot1, right image) used at a dilution of 1:1,000 (1 µg/ml).

Detection: DAB