Phospho MCM2 (S41) Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Catalog No. A300-117A

Lot No. A300-117A-1

Protein ID NP_004517.2

GeneID 4171

APPLICATIONS	WB, IHC
SPECIES REACTIVITY	Human, Mouse
PRESUMED REACTIVITY	Based on 100% sequence identity, this antibody is predicted to react with X. laevis and X. tropicalis
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 a synthetic peptide representing phosphorylation at Serine 41 and surrounding residues of MCM2 immobilized on solid support. Immunogen for A300-117A was a synthetic phosphorylated peptide, which represented a portion of human Minichromosomal Maintenance Deficient 2 surrounding Serine 41 according to the numbering given in entry NP_0045117.2 (GeneID 4171). 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.

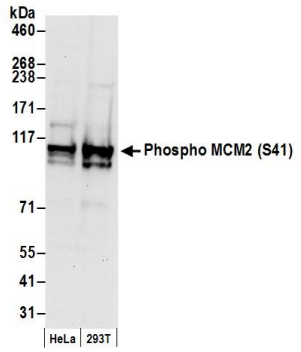
Western Blot	1:5,000 - 1:20,000
Immunohistochemistry	1:1,000 - 1:5,000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.

APPLICATION NOTES	Western blot of lysates performed using standard western blot reagents and 4-8% SDS-PAGE.
IHC HUMAN CONTROLS	Breast Carcinoma, Colon Carcinoma, Laryngeal Squamous Cell Carcinoma, Small Cell Lung Cancer
IHC MOUSE CONTROLS	Squamous Cell Carcinoma
ADDITIONAL INFO	https://www.bethyl.com/product/A300-117A Use the link above to view SDS, a current list of citations, and other product specific information.

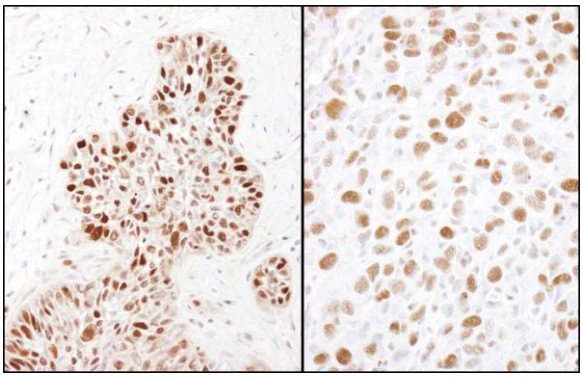
This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.

Eric McIntush, PhD | Chief Scientific Officer

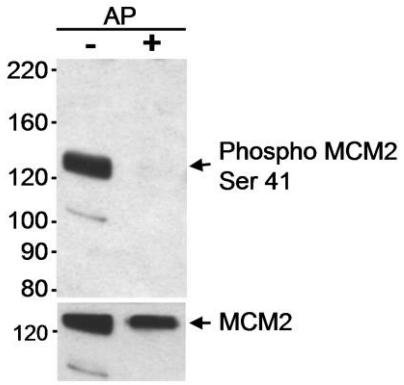
Date: June 21, 2019



Detection of human Phospho MCM2 (S41) by western blot. *Samples:* Whole cell lysate (50 µg) from HeLa and HEK293T cells prepared using NETN lysis buffer. *Antibody:* Affinity purified rabbit anti-Phospho MCM2 (S41) antibody A300-117A (lot A300-117A-1) used for WB at 0.1 µg/ml. *Detection:* Chemiluminescence with an exposure time of 10 seconds.



Detection of human and mouse MCM2 (Ser41) by immunohistochemistry. *Sample:* FFPE section of human laryngeal squamous cell carcinoma (left) and mouse squamous cell carcinoma (right). *Antibody:* Affinity purified rabbit anti- MCM2 (Ser41) (Cat. No. A300-117A Lot1) used at a dilution of 1:1,000 (1µg/ml). *Detection:* DAB



Detection of human Phospho MCM2 (Ser41) by western blot. *Samples:* Whole cell lysate (30 µg) from HeLa cells that were either untreated or treated with alkaline phosphatase (AP). *Antibodies:* Affinity purified rabbit anti-phospho MCM2 (Ser41) antibody A300-117A used at 0.1 µg/ml. After probing with the phospho-specific antibodies, rabbit anti-MCM2 antibody A300-191A was used at 0.2 µg/ml to show total MCM2. *Detection:* Chemiluminescence with a 1 minute exposure.