## Phospho SMC3 (S1083) Antibody

Rabbit Polyclonal

Antigen Affinity Purified Protein ID NP\_005436.1

Catalog No. A304-637A GeneID 9126

Lot No. A304-637A-2

APPLICATIONS WB, IP
SPECIES REACTIVITY Human

PRESUMED REACTIVITY Based on 100% sequence identity, this antibody is predicted to react with Mouse, Rat and

Orangutan

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** Antibody was affinity purified using an epitope specific to SMC3, Phospho (S1083) immobilized

**PROCEDURES** on solid support.

The epitope recognized by A304-637A maps to a region between residue The epitope recognized by A304-637A maps to a region surrounding residue 1083 when Serine 1083 is phosphorylated of human Structural Maintenance of Chromosomes 3 using the numbering given in SwissProt entry Q9UQE7 (GeneID 9126). of human Structural Maintenance of Chromosome 3

using the numbering given in entry NP\_005436.1 (GeneID 9126).

Antibody 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 1:500 - 1:2.500

Immunoprecipitation 2 – 10 µg/mg lysate

**APPLICATION NOTES** Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. \$100–020),

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).

Western blot of lysates performed using standard western blot reagents and 4-8% SDS-PAGE.

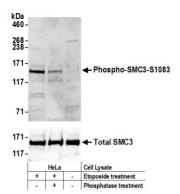
ADDITIONAL INFO https://www.bethyl.com/product/A304-637A

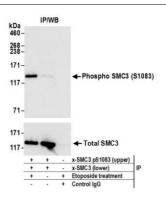
Use the link above to view SDS, a current list of citations, and other product specific information.

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: June 21, 2019







Detection of human Phospho SMC3 (S1083) by western blot (WB). Samples: Whole cell lysate (50 μg) from HeLa cells treated with 100 μM etoposide and/or 100 μM phosphatase for 4 hours (+) or mock treated (-) cells. Antibodies: Affinity purified rabbit anti-Phospho SMC3 (S1083) antibody A304-637A-2 used for WB at 1 μg/ml (upper panel); to detect total SMC3, rabbit anti-SMC3 A300-060A was used for WB at 0.1 μg/ml (lower panel). Detection: Chemiluminescence with an exposure time of 3 minutes (upper panel) or 10 seconds (lower panel).

Detection of human Phospho SMC3 (S1083) by western blot of immunoprecipitates. Samples: Whole cell lysate (1 mg for IP; 20% of IP loaded) from HeLa cells treated with 100  $\mu$ M etoposide for 4 hours (+) or mock treated (-). Antibodies: Phospho SMC3 (S1083) was immunoprecipitated using rabbit anti-Phospho SMC3 (S1083) antibody A304–637A (lot A304–637A–2) at 6  $\mu$ g per reaction. Total SMC3 was immunoprecipitated with rabbit anti-SMC3 antibody A300–060A. Rabbit anti-SMC3 antibody A300–060A was used for WB of IPs at 1  $\mu$ g/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.