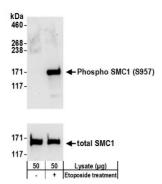
## Phospho SMC1 (S957) Antibody

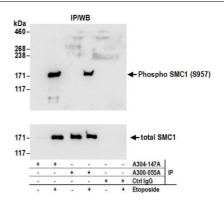
Rabbit Polyclo					Contraction of the second seco	
Antigen Affinity Purified			rotein ID	NP_006297.2		
Catalog No. Lot No.	A304- A304-				BETHYL LABORATORIES, INC	
APPLICATIONS		WB, IP, IHC				
SPECIES REACTIVITY		Human, Mouse				
PRESUMED REACTIVITY		Based on 100% sequence identity, this antibody is predicted to react with Bovine				
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 Phospho SMC1 (S957) immobilized on solid support.				
		The epitope recognized by A304–147A maps to a region of human SMC1 (structural maintenance of chromosomes 1–like 1) surrounding serine 957 using the numbering given in entry NP_006297.2 (Gene ID 8243) when the serine residue is phosphorylated.				
		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	1:2	2,000 - 1:10,000		
		Immunoprecipitat	ion 2 –	10 µg/mg lysate		
		Immunohistochen		,000 – 1:5,000. Epitope ret ommended for FFPE tissue	rieval with citrate buffer pH 6.0 is sections.	
APPLICATION NOTES		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).				
IHC HUMAN CONTROLS		Western blot of lysates performed using standard western blot reagents and 4–8% SDS-PAGE. Breast Carcinoma, Ovarian Carcinoma, Prostate Carcinoma				
IHC MOUSE CONTROLS		Teratoma				
ADDITIONAL INFO		https://www.bethyl.com/product/A304-147A 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

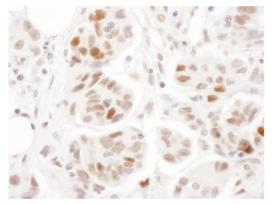
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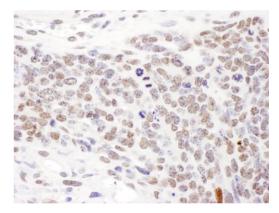
Detection of human Phospho SMC1 (S957) by western blot. Samples: Whole cell lysate (50  $\mu$ g) from 293T cells treated with 100  $\mu$ M etoposide for 2 hours (+) or mock treated (-) cells. Antibodies: Affinity purified rabbit anti-Phospho SMC1 (S957) antibody A304–147A (lot A304–147A–1) used for WB at 0.1  $\mu$ g/ml. Detection: Chemiluminescence with an exposure time of 30 seconds. Lower panel shows western blot for total SMC1 using affinity purified rabbit anti-SMC1 antibody A300–055A at 0.1  $\mu$ g/ml with an exposure time of 30 seconds.



Detection of human Phospho SMC1 (S957) by western blot of immunoprecipitates. *Samples:* Whole cell lysate (1 mg for IP; 20% of IP loaded) from 293T cells treated with 100  $\mu$ M etoposide for 2 hours (+) or mock treated (-) cells. *Antibodies:* Phospho SMC1 (S957) was immunoprecipitated using affinity purified rabbit anti–Phospho SMC1 (S957) antibody A304–147A (lot A304–147A–1) at 6  $\mu$ g/mg lysate. Total SMC1 was immunoprecipitated using rabbit anti–SMC1 antibody A300–055A at 6  $\mu$ g/mg lysate. Phospho SMC1 (S957) was blotted using A304–147A at 0.1  $\mu$ g/ml (upper panel). Total SMC1 was blotted using A300–055A at 0.1  $\mu$ g/ml (lower panel). *Detection:* Chemiluminescence with exposure times of 30 seconds.



Detection of human Phospho SMC1 (S957) by immunohistochemistry. *Sample:* FFPE section of human ovarian carcinoma. *Antibody:* Affinity purified rabbit anti-Phospho SMC1 (S957) (Cat. No. A304-147A Lot1) used at a dilution of 1:5,000 (0.2µg/ml). *Detection:* DAB



Detection of mouse Phospho SMC1 (S957) by immunohistochemistry. *Sample:* FFPE section of mouse teratoma. *Antibody:* Affinity purified rabbit anti- Phospho SMC1 (S957) (Cat. No. A304-147A Lot1) used at a dilution of 1:1,000 (1µg/ml). *Detection:* DAB



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