

Rabbit anti-Human SMC1 Polyclonal Antibody | anti-SMC1 antibody

Rabbit anti-Phospho SMC1 (S966) Antibody, Affinity Purified

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA210736	Rabbit	Human	Immunocytochemistry, Immunohistochemistry, Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

SMC1; Polyclonal Antibody; Rabbit anti-Phospho SMC1 (S966) Antibody; Affinity Purified; Phospho (S966); SMC protein 1A; SMC-1A; structural maintenance of chromosomes protein 1A; SMCB; SMC1L1; SMC-1-alpha; SMC1alpha; segregation of mitotic chromosomes 1; SB1.8; epididymis secretory sperm binding protein; DXS423E; CDLS2; SMC1 (structural maintenance of chromosomes 1; yeast)-like 1; Structural maintenance of chromosomes protein 1A; structural maintenance of chromosomes 1A; anti-SMC1 antibody

PRODUCT SPECIFICATIONS

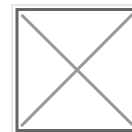
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Concentration	1000ug/ml (varies by lot)
Applicable Applications for anti-SMC1 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), IP (Immunoprecipitation), WB (Western Blot)
Immunogen	Surrounding serine 966
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt

IMAGES



WB (Western Blot)

Detection of Phospho SMC1 (S966) by western blot. Samples: Whole cell lysate (50 ug) from Jurkat cells treated with 100 uM etoposide (+) or mock treated (-). Antibodies: Affinity purified rabbit anti-Phospho SMC1 (S966) antibody AAA210736 (lot AAA210736-7) used at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes. For detection of total SMC1, rabbit anti-SMC1 antibody was used.



IP (Immunoprecipitation)

Detection of human Phospho SMC1 (S966) by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from Jurkat cells treated with 100 uM etoposide (+) or mock treated (-). Antibodies: Rabbit anti-Phospho SMC1 (S966) antibody AAA210736 (lot AAA210736-7) used for IP at 3 ul per reaction. Phospho SMC1 (S966) was also immunoprecipitated by rabbit anti-SMC1 antibody. For blotting immunoprecipitated Phospho SMC1 (S966), AAA210736 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes. For detection of total SMC1, rabbit anti-SMC1 antibody was used.



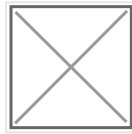
IHC (Immunohistochemistry)

Detection of human Phospho SMC1 (S966) by immunohistochemistry. Sample: FFPE section of human breast carcinoma. Antibody: Affinity purified rabbit anti-Phospho SMC1 (S966) (Cat. No. AAA210736 lot 7) used at a dilution of 1:1,000 (1ug/ml). Detection: DAB



IHC (Immunohistochemistry)

Detection of human Phospho SMC1 (S966) by immunohistochemistry. Sample: FFPE section of human testicular seminoma. Antibody: Affinity purified rabbit anti-Phospho SMC1 (S966) (Cat. No. AAA210736 Lot 7) used at a dilution of 1:1,000 (1ug/ml). Detection: DAB



ICC (Immunocytochemistry)

Detection of human Phospho SMC1 (S966) by immunocytochemistry. Samples: Neocarzinostatin treated asynchronous HeLa cells. Antibody: Affinity purified rabbit anti-Phospho SMC1 (S966) (Cat. No. AAA210736 Lot 6) used at a dilution of 1:5,000 (0.2ug/ml). Detection: Red fluorescent Anti-rabbit IgG-DyLight 594 conjugated used at a dilution of 1:100.

ADDITIONAL INFORMATION

Related Product Information for anti-SMC1 antibody	Structural maintenance of chromosomes (SMC) proteins are part of the cohesin and condensin multisubunit complexes that play a critical role in chromosome organization, segregation, gene regulation, and DNA repair. The core cohesin complex includes a heterodimer of SMC1 and SMC3 that functions by forming a ring-like structure that holds sister chromatids together. Cohesin is important to sister chromatid separation and segregation during mitosis and meiosis and also plays a role in double-strand break repair by homologous recombination.
Product Categories/Family for anti-SMC1 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	30581135
NCBI GeneID	8243
NCBI Accession #	NP_006297.2
NCBI GenBank Nucleotide #	NM_006306.2
UniProt Accession #	Q14683 ; O14995 ; Q16351 ; Q2M228
Molecular Weight	143,233 Da
NCBI Official Full Name	structural maintenance of chromosomes protein 1A
NCBI Official Synonym Full Names	structural maintenance of chromosomes 1A
NCBI Official Symbol	SMC1A
NCBI Official Synonym Symbols	SMC1; SMCB; CDLS2; SB1.8; SMC1L1; DXS423E; SMC1alpha
NCBI Protein Information	structural maintenance of chromosomes protein 1A; SMC-1A; SMC-1-alpha; SMC protein 1A; segregation of mitotic chromosomes 1; SMC1 structural maintenance of chromosomes 1-like 1; SMC1 (structural maintenance of chromosomes 1, yeast)-like 1
UniProt Protein Name	Structural maintenance of chromosomes protein 1A
UniProt Gene Name	SMC1A
UniProt Synonym Gene Names	DXS423E; KIAA0178; SB1.8; SMC1; SMC1L1; SMC protein 1A; SMC-1-alpha; SMC-1A
UniProt Entry Name	SMC1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/smc1-antibody-immunocytochemistry-immunohistochemistry-immunoprecipitation-western-blot-elisa/210736>