

Mouse SMC1 Monoclonal Antibody | anti-SMC1 antibody

SMC1 antibody

CATALOG # AAA225020	HOST Mouse	APPLICATIONS Western Blot, Immunohistochemistry, Immunofluorescence, ELISA
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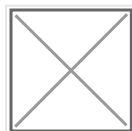
PRODUCT SYNONYMS

SMC1; Monoclonal Antibody; SMC1 antibody; Mouse monoclonal SMC1 antibody; Monoclonal SMC1 antibody; Anti-SMC1 antibody; SM-1c antibody; SM 1c antibody; Structural maintenance of chromosomes 1A antibody; SMC protein 1A antibody; SM-1c-alpha antibody; SM 1c; SM-1c; anti-SMC1 antibody

PRODUCT SPECIFICATIONS

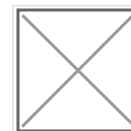
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	5B6
Form/Format	Liquid in ascitic fluid containing 0.03% sodium azide.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	306
Applicable Applications for anti-SMC1 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA
Immunogen	SMC1 antibody was raised in Mouse using a purified recombinant fragment of human SMC1 expressed in E Coli as the immunogen.
Cross-Reactivity	Human
Preparation and Storage	Store at 4 degree C for short term storage. Store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES



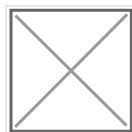
IF (Immunofluorescence)

Immunofluorescence analysis of NIH/3T3 cells using SMC1 antibody (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



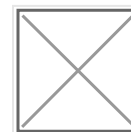
IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human colon using SMC1 antibody with DAB staining.



WB (Western Blot)

Western Blot showing SMC1 antibody used against K562 (1), Jurkat (2) and A549 (3) cell lysate.



FCM/FACS (Flow Cytometry)

FC analysis of HeLa cells using SMC1 antibody (green) and negative control (purple).

ADDITIONAL INFORMATION

Related Product Information for anti-SMC1 antibody	Proper cohesion of sister chromatids is a prerequisite for the correct segregation of chromosomes during cell division. The cohesin multiprotein complex is required for sister chromatid cohesion. This complex is composed partly of two structural maintenance of chromosomes (SMC) proteins, SMC3 and either SMC1L2 or the protein encoded by this gene. Most of the cohesin complexes dissociate from the chromosomes before mitosis, although those complexes at the kinetochore remain. Therefore, the encoded protein is thought to be an important part of functional kinetochores. In addition, this protein interacts with BRCA1 and is phosphorylated by ATM, indicating a potential role for this protein in DNA repair.
Product Categories/Family for anti-SMC1 antibody	Differentiation & Development

NCBI AND UNIPROT INFORMATION

NCBI GI #	209946264
Molecular Weight	35,133 Da
NCBI Official Full Name	SMC1, partial
UniProt Protein Name	SMC1
UniProt Gene Name	smc1

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/monoclonal/smc1-antibody-clone-5b6-western-blot-immunohistochemistry-immunofluorescence-elisa/225020>