Mouse anti-Human SMC1A Monoclonal Antibody | anti-SMC1A antibody

SMC1A (N-term) Mouse mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320306	**Mouse**	**Human**	**Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

SMC1A; Monoclonal Antibody; SMC1A (N-term) Mouse mAb; Chromosome segregation protein SmcB; DXS423E; KIAA0178; MGC138332; Sb1.8; Segregation of mitotic chromosomes 1; SMC protein 1A; SMC-1-alpha; SMC-1A; SMC1 (structural maintenance of chromosomes 1 yeast) like 1; SMC1; SMC1 structural maintenance of chromosomes 1 like 1; SMC1A_HUMAN; SMC1alpha; SMC1L1; SMCB; Structural maintenance of chromosomes 1A; Structural maintenance of chromosomes protein 1A.; anti-SMC1A antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Specificity	This antibody detects endogenous levels of SMC1A (N-terminus) and does not cross-react with related proteins.
Purity/Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-SMC1A antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Purified recombinant human SMC1A(N-terminus) protein fragments expressed in E coli.
Modification	Unmodified/Total
Preparation and Storage	Store at -20 degree C/1 year

IMAGES

Application Data

FCM/FACS (Flow Cytometry)
Flow Cytometry analysis of HeLa cells stained with SMC1A (N-terminus)(red. 1/100 dilution). followed by FITC-conjugated goat anti-mouse IgG. Black line histogram represents the isotype control. normal mouse IgG.

IHC (Immunohiostchemistry)
IHC of paraffin-embedded human colon using anti-SMC1A (N-terminus) mouse mAb diluted 1/500-1/1000.

WB (Western Blot)
Western blot detection of SMC1A(N-terminus) in HelaNE.Jurkat and A431 cell lysates using SMC1A (N-terminus) mouse mAb (1:1000 diluted).Predicted band size: 143KDa.Observed band size: 143KDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SMC1A antibody	structural maintenance of chromosomes 1A(SMC1A) Homo sapiens 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 SMC1B orThe 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. This gene, which belongs to the SMC gene family, is located in an area of the X-chromosome that escapes X inactivation. Mutations in this gene result in Cornelia de Lange syndrome. Altern
Product Categories/Family for anti-SMC1A 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/monoclonal/smc1a-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/320306