

Rabbit SMC1A Polyclonal Antibody | anti-SMC1A antibody

SMC1A antibody - C-terminal region

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA198389	Rabbit	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish	Immunohistochemistry, Western Blot

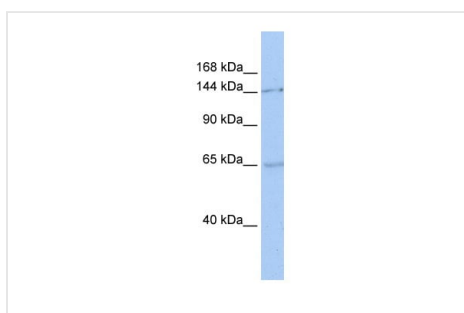
PRODUCT SYNONYMS

SMC1A; Polyclonal Antibody; SMC1A antibody - C-terminal region; anti-SMC1A antibody

PRODUCT SPECIFICATIONS

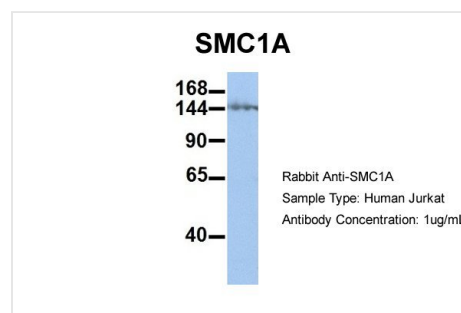
Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Zebrafish
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following sequence: VI SLKEEFYTKA ESLIGVYPEQ GDCVISKVL FDLTKYPDAN PNPNEQ
Sequence Length	1233
Applicable Applications for anti-SMC1A antibody	IHC (Immunohistochemistry), WB (Western Blot)
Homology	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%; Zebrafish: 77%
Immunogen	The immunogen is a synthetic peptide directed towards the C terminal region of human SMC1A
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



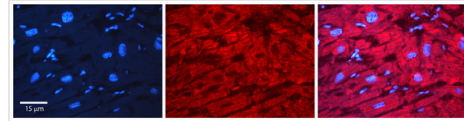
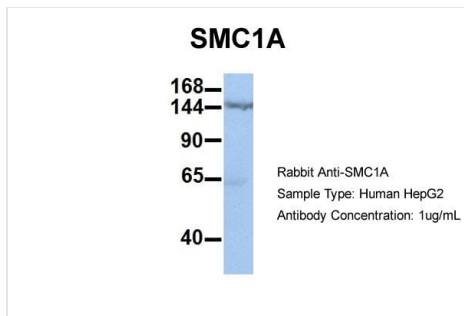
WB (Western Blot)

WB Suggested Anti-SMC1A Antibody Titration: 0.2-1 ug/mL
 ELISA Titer: 1:1562500
 Positive Control: 293T cell lysate
 SMC1A is supported by BioGPS gene expression data to be expressed in HEK293T



WB (Western Blot)

Host: Rabbit
 Target Name: SMC1A
 Sample Type: Human Jurkat
 Antibody Dilution: 1.0ug/mL
 SMC1A is supported by BioGPS gene expression data to be expressed in Jurkat



IHC (Immunohistochemistry)

Rabbit Anti-SMC1A Antibody
Formalin Fixed Paraffin Embedded Tissue: Human heart
Tissue
Observed Staining: Cytoplasmic
Primary Antibody Concentration: 1:100
Other Working Concentrations: N/A
Secondary Antibody: Donkey anti-Rabbit-Cy3
Secondary Antibody Concentration: 1:200
Magnification: 20X
Exposure Time: 0.5 - 2.0 sec

WB (Western Blot)

Host: Rabbit
Target Name: SMC1A
Sample Type: Human HepG2
Antibody Dilution: 1.0ug/ml
SMC1A is supported by BioGPS gene expression data to be expressed in HepG2

ADDITIONAL INFORMATION

Related Product Information for anti-SMC1A antibody

This is a rabbit polyclonal antibody against SMC1A. It was validated on Western Blot using a cell lysate as a positive control.

Target Description: 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 SMC1A gene. Most of the cohesin complexes dissociate from the chromosomes before mitosis, although those complexes at the kinetochore remain. Therefore, the SMC1A 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. 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. This gene, which belongs to the SMC gene family, is located in an area of the X-chromosome that escapes X inactivation. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Product Categories/Family for anti-SMC1A antibody

[Polyclonal](#); [Cell Cycle Proteins](#); [DNA Damage & Repair](#); [Meiosis/Mitosis/Cell Cycle](#); [DNA Repair](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	30581135
NCBI GeneID	8243
NCBI Accession #	NP_006297
NCBI GenBank Nucleotide #	NM_006306
UniProt Accession #	Q14683
Molecular Weight	143kDa
NCBI Official Full Name	structural maintenance of chromosomes protein 1A isoform 1
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
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://www.aaabiotech.com/polyclonal/smc1a-antibody-immunohistochemistry-western-blot-elisa/198389>