

Rabbit anti-Human SMC1 phospho Ser957 Polyclonal Antibody | anti-SMC1 antibody

SMC1 phospho Ser957 antibody (pAb)

CATALOG # AAA59899	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot
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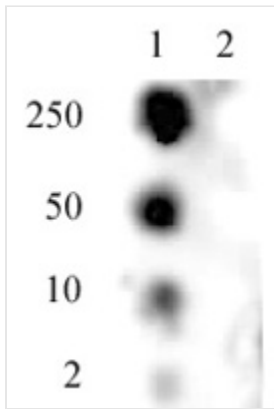
PRODUCT SYNONYMS

SMC1 phospho Ser957; Polyclonal Antibody; SMC1 phospho Ser957 antibody (pAb); SMC1A; SMCB; CDLS2; SB1.8; SMC1L1; DXS423E; SMC1alpha; anti-SMC1 antibody

PRODUCT SPECIFICATIONS

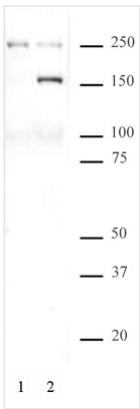
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purified
Form/Format	Purified IgG in 70mM Tris (pH8), 105mM NaCl, 31mM glycine, 0.07mM EDTA, 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Applicable Applications for anti-SMC1 antibody	WB (Western Blot)
Conjugation	Phosphorylated
Immunogen	This SMC1 phospho Ser957 antibody was raised against a peptide containing phospho-serine 957 of human SMC1.
Abs Residue	Ser
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul

IMAGES



DB (Dot Blot)

SMC1 phospho Ser957 pAb tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of SMC1 phospho Ser957 pAb for phospho Ser957 of SMC1. Phosphorylated peptides corresponding to the immunogen and related peptides were spotted onto PVDF and probed with the antibody at 1 ug/ml. The amount of peptide (picomoles) spotted is indicated next to each row. Lane 1: peptide phosphorylated at serine 957. Lane 2: unmodified peptide containing serine 957.



WB (Western Blot)

SMC1 phospho Ser957 pAb tested by Western blot. Nuclear extract of HeLa cells (20 ug per lane) probed with 1:1,000 dilution). Lane 1: untreated cells. Lane 2: cells treated with etoposide (100 uM for 2hrs).

ADDITIONAL INFORMATION

Related Product Information for anti-SMC1 antibody	Short Description: Our SMC1 phospho Ser957 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Western blot; it has been shown to react with Human samples. Background: The Structural Maintenance of Chromosomes (SMC) family proteins play critical roles in various nuclear events that require structural changes of chromosomes, including mitotic chromosome organization, DNA recombination and repair and global transcriptional repression. SMC1 has a myosin-like ATPase domain that serves as a molecular motor to help organize chromatin and is part of the cohesin complex that facilitates chromosome cohesion during the cell cycle. SMC1 and SMC3 form a heterodimeric complex required for metaphase progression in mitotic cells. SMC1 is also involved in DNA damage repair. Subsequent to double strand DNA breaks, SMC1 is phosphorylated by the ATM kinase. Phosphorylated SMC1 is crucial to the successful repair of DNA damage. Defects in SMC1 isoform A are the cause of Cornelia de Lange syndrome type 2, an inherited developmental disorder associated with malformations affecting multiple systems.
Product Categories/Family for anti-SMC1 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	30581135
NCBI GeneID	8243
NCBI Accession #	NP_006297 ; AB_2793282
NCBI GenBank Nucleotide #	NM_006306
UniProt Accession #	Q14683 ; O14995 ; Q16351 ; Q2M228
Molecular Weight	143,233 Da
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; SMC protein 1A; SMC-1-alpha; SMC1 (structural maintenance of chromosomes 1, yeast)-like 1; segregation of mitotic chromosomes 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-phospho-ser957-antibody-western-blot-elisa/59899>