

Rabbit SMC5 Polyclonal Antibody | anti-SMC5 antibody

SMC5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329203	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

SMC5; Polyclonal Antibody; SMC5 Antibody; hSMC 5; hSMC5; KIAA0594; MLZ-453; OTTHUMP00000063367; SMC 5; SMC 5 structural maintenance of chromosomes 5 like 1; SMC protein 5; SMC5 L1; SMC5 protein; SMC5 structural maintenance of chromosomes 5 like 1; SMC5L1; Structural maintenance of chromosomes 5; Structural maintenance of chromosomes 5 like 1; Structural maintenance of chromosomes protein 5; anti-SMC5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	SMC5 Antibody detects endogenous levels of total SMC5.
Purity/Purification	Peptide affinity purification
Form/Format	IgG in phosphate buffered saline , pH 7.4, 150mMNaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-SMC5 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SMC5,corresponding to a region within C-terminal amino acids.
Preparation and Storage	Store at -20°C.

IMAGES



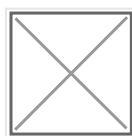
IF (Immunofluorescence)

AAA329203 staining HepG2 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25Å°C. Samples were then incubated with primary Ab(AAA329203) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37Å°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from 3T3-7, using SMC5 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)

Western blot analysis of extracts from HeLa cells, using SMC5 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SMC5 antibody	Core component of the SMC5-SMC6 complex, a complex involved in repair of DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination in ALT (alternative lengthening of telomeres) cell lines and mediates sumoylation of shelterin complex (telosome) components which is proposed to lead to shelterin complex disassembly in ALT-associated PML bodies (APBs). Required for recruitment of telomeres to PML nuclear bodies. Required for sister chromatid cohesion during prometaphase and mitotic progression; the function seems to be independent of SMC6. SMC5-SMC6 complex may prevent transcription of episomal DNA, such as circular viral DNA genome (PubMed:26983541).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	122070387
NCBI GeneID	23137
UniProt Accession #	Q8IY18
Molecular Weight	128kDa
NCBI Official Full Name	Structural maintenance of chromosomes protein 5
NCBI Official Synonym Full Names	structural maintenance of chromosomes 5
NCBI Official Symbol	SMC5
NCBI Official Synonym Symbols	SMC5L1
NCBI Protein Information	structural maintenance of chromosomes protein 5
UniProt Protein Name	Structural maintenance of chromosomes protein 5
UniProt Gene Name	SMC5
UniProt Synonym Gene Names	KIAA0594; SMC5L1; SMC protein 5; SMC-5; hSMC5
UniProt Entry Name	SMC5_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.