

Rabbit anti-Human SMC4 Polyclonal Antibody | anti-SMC4 antibody

Anti-SMC4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125476	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

SMC4; Polyclonal Antibody; Anti-SMC4 Antibody; Structural maintenance of chromosomes protein 4; SMC protein 4; SMC-4; Chromosome-associated polypeptide C; hCAP-C; XCAP-C homolog; CAPC; SMC4L1; anti-SMC4 antibody

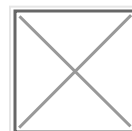
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	1288
Applicable Applications for anti-SMC4 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human SMC4 recombinant protein (Position: K911-C1288).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen store at -20 degree C for a longer time. Avoid repeated freezing and thawing.

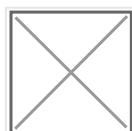
IMAGES



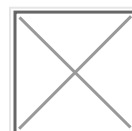
WB (Western Blot)



IF (Immunofluorescence)



FCM/FACS (Flow Cytometry)



FCM/FACS (Flow Cytometry)

ADDITIONAL INFORMATION

Related Product Information for anti-SMC4 antibody	Description: Rabbit IgG polyclonal antibody for SMC4 detection. Tested with WB, ICC/IF, FCM, Direct ELISA in Human. Background: Structural maintenance of chromosomes protein 4 (SMC-4) also known as chromosome-associated polypeptide C (CAP-C) or XCAP-C homolog is a protein that in humans is encoded by the SMC4 gene. This gene belongs to the 'structural maintenance of chromosomes' (SMC) gene family. Members of this gene family play a role in two changes in chromosome structure during mitotic segregation of chromosomes- chromosome condensation and sister chromatid cohesion. The protein encoded by this gene is likely a subunit of the 13S condensin complex, which is involved in chromosome condensation. A pseudogene related to this gene is located on chromosome 2.
References	1. Hirano T (2002). "The ABCs of SMC proteins: two-armed ATPases for chromosome condensation, cohesion, and repair". Genes Dev. 16 (4): 399-414. 2. Ball Jr AR, Yokomori K (2001). "The structural maintenance of chromosomes (SMC) family of proteins in mammals". Chromosome Res. 9 (2): 85-96. 3. Kimura K, Cuvier O, Hirano T (2001). "Chromosome condensation by a human condensin complex in Xenopus egg extracts". J. Biol. Chem. 276 (8): 5417-20.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50658065
NCBI GeneID	10051
NCBI Accession #	NP_005487.3
NCBI GenBank Nucleotide #	NP_005487.3
UniProt Accession #	Q9NTJ3
NCBI Official Full Name	structural maintenance of chromosomes protein 4 isoform 1
NCBI Official Synonym Full Names	structural maintenance of chromosomes 4
NCBI Official Symbol	SMC4
NCBI Official Synonym Symbols	CAPC; CAP-C; SMC-4; SMC4L1
NCBI Protein Information	structural maintenance of chromosomes protein 4
UniProt Protein Name	Structural maintenance of chromosomes protein 4
UniProt Gene Name	SMC4
UniProt Synonym Gene Names	CAPC; SMC4L1; SMC protein 4; SMC-4; hCAP-C
UniProt Entry Name	SMC4_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.