

SMC1A Rabbit Polyclonal Antibody



CAB2240

Product Information

Size:

20uL, 50uL, 100uL, 200uL

Observed MW:

Calculated MW:

143kDa

Applications:

IF

Reactivity:

Human

Antibody Information

Recommended dilutions:

IF 1:50 - 1:200

Source:

Rabbit

Isotype:

IgG

Purification:

Affinity purification

Protein Background

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 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. Mutations in this gene result in Cornelia de Lange syndrome. Alternative splicing results in multiple transcript variants encoding different isoforms.

Immunogen information

Gene ID:

8243

Uniprot

Q14683

Synonyms:

SMC1A; CDLS2; DXS423E; SB1.8; SMC1; SMC1L1; SMC1alpha; SMCB

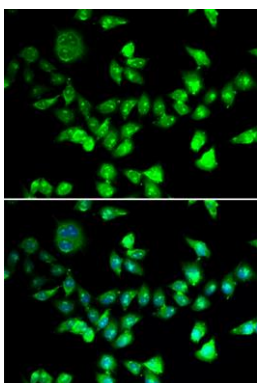
Immunogen:

Recombinant fusion protein containing a sequence corresponding to amino acids 1-130 of human SMC1A (NP_006297.2).

Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Product Images



Immunofluorescence analysis of U2OS cells using SMC1A antibody (CAB2240). Blue: DAPI for nuclear staining.