

CAB4693

Product Information

Product SKU:	CAB4693	Gene ID:	8243	Size:	20uL, 100uL
Clone No:	ARC1095	Host Species:	Rabbit	Reactivity:	Human,Mouse

Additional Information

Observed MW:	160kDa	Conjugate:	Unconjugated
Calculated MW:	143kDa	Isotype:	IgG

Immunogen Information

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.

Recommended Dilution: WB,1:500 - 1:1000 IF/ICC,1:50 - 1:200

Synonyms: SMC1; SMCB; CDLS2; DEE85; SB1.8; EIEE85; SMC1L1; DXS423E; SMC1alpha

Purification Method: Affinity purification

Immunogen: A synthetic peptide corresponding to a sequence within amino acids 1134-1233 of human SMC1 (Q14683).

Storage: Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.