

Recombinant Human SMC1A

Catalog No: #GP12037



Package Size: #GP12037-1 100ug

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Description

Product Name	Recombinant Human SMC1A
Brief Description	Recombinant Protein
Immunogen Description	Fusion protein corresponding to a region derived from 1001-1233 amino acids of human SMC1A
Target Name	structural maintenance of chromosomes 1A
Other Names	SMC1; SMCB; CDLS2; SB1.8; SMC1L1; DXS423E; SMC1alpha
Accession No.	Swissprot:Q14683Gene Accession:BC112127
Uniprot	Q14683
GeneID	8243;
Storage	-20~-80°C, pH 7.6 PBS

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.

References

Note: For in vitro research use only, not for diagnostic or therapeutic use. This product is not a medical device.

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