

SMC1B Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13852c**Specification**

SMC1B Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q8NDV3](#)**SMC1B Antibody (Center) Blocking peptide - Additional Information****Gene ID** 27127**Other Names**

Structural maintenance of chromosomes protein 1B, SMC protein 1B, SMC-1-beta, SMC-1B, SMC1B, SMC1L2

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13852c was selected from the Center region of SMC1B. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SMC1B Antibody (Center) Blocking peptide - Protein Information**Name** SMC1B**Synonyms** SMC1L2**Function**

Meiosis-specific component of cohesin complex. Required for the maintenance of meiotic cohesion, but not, or only to a minor extent, for its establishment. Contributes to axial element (AE) formation and the organization of chromatin loops along the AE. Plays a key role in synapsis, recombination and chromosome movements. The cohesin complex is required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. The meiosis-specific cohesin complex probably replaces mitosis specific cohesin complex when it dissociates from chromatin during prophase I (By similarity).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q920F6}. Chromosome {ECO:0000250|UniProtKB:Q920F6}. Chromosome, centromere {ECO:0000250|UniProtKB:Q920F6}. Note=Associates with chromatin. In prophase I stage of meiosis, localizes along the AE of synaptonemal complexes. In late-pachytene-diplotene, the bulk of protein dissociates from the chromosome arms probably because of phosphorylation by PLK, except at centromeres, where cohesin complexes remain. Remains chromatin associated at the centromeres up to metaphase II. At anaphase II, dissociates from centromeres, allowing chromosomes segregation (By similarity). {ECO:0000250|UniProtKB:Q920F6}

SMC1B Antibody (Center) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SMC1B Antibody (Center) Blocking peptide - Images**SMC1B Antibody (Center) Blocking peptide - Background**

SMC1L2 belongs to a family of proteins required for chromatid cohesion and DNA recombination during meiosis and mitosis(3:Revenkova et al., 2001 [PubMed 11564881]).

SMC1B Antibody (Center) Blocking peptide - References

Cobbe, N., et al. Mol. Biol. Evol. 21(2):332-347(2004)Revenkova, E., et al. Mol. Cell. Biol. 21(20):6984-6998(2001)Harrington, J.J., et al. Nat. Biotechnol. 19(5):440-445(2001)