
SMC1 (5B6) Antibody

Subcategory: Mouse Monoclonal Antibody

Cat. No.: 252952

Unit: 0.1 ml

Description:

SMC1 (Structural maintenance of chromosomes protein 1A) protein is involved in chromosome cohesion during cell cycle and in DNA repair. 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 SMC1L2 or SMC1. Most of the cohesin complexes dissociate from the chromosomes before mitosis, although those complexes at the kinetochore remain. Therefore, SMC1 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.

Isotype: Mouse IgG1

Applications: WB, IHC, IF

Species Reactivity: H

Format: Each vial contains 0.1 ml ascitic fluid with 0.03% sodium azide.

Alternate Names: Structural maintenance of chromosomes protein 1A; SMC protein 1A; -1-alpha; SMC-1A; Sb1.8; SMC1L1; DXS423E; KIAA0178; SB1.8; SMC1; SMC1A

Accession No.: Q14683

Antigen: Purified recombinant fragment of human SMC1 expressed in E. coli.

Application Notes: WB: 1:200-1:1000; IF: 1:200-1:1000; IHC: 1:200-1:1000

Storage: Store at 4°C for short term use only. Store at -20°C for storage over 1 month. Product is guaranteed 6 months from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.