

Product Name: SMC1 Mouse Monoclonal Antibody

Catalog #: AMM80797

For research use only.

Summary

Description Mouse monoclonal Antibody

1mg/ml

Host Mouse

Application WB,IHC,ICC,ELISA,FC

Reactivity Human

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG1ClonalityMonoclonalFormLiquid

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Buffer Purified antibody in PBS with 0.05% sodium azide

Purification Affinity Purification

Application

Concentration

Dilution Ratio WB 1:500-1:2000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400

Molecular Weight 143kDa

Antigen Information

Alternative Names

Gene Name SMC1

SMC1; SMCB; CDLS2; SB1.8; SMC1L1; DXS423E; KIAA0178; MGC138332; SMC1alpha;

DKFZp686L19178; SMC1A

 Gene ID
 8243.0

 SwissProt ID
 Q14683

Immunogen Purified recombinant fragment of human SMC1 expressed in E. Coli.

Background

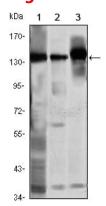
Proper cohesion of sister chromatids is a prerequisite for the correct segregation of chromosomes during cell division. The cohesin multiprotein complex is required for sister chromatid cohesion. This complex is composed partly of two structural



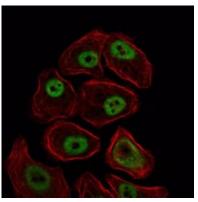
maintenance of chromosomes (SMC) proteins, SMC3 and either SMC1L2 or the protein encoded by this gene. Most of the cohesin complexes dissociate from the chromosomes before mitosis, although those complexes at the kinetochore remain. Therefore, the encoded protein is thought to be an important part of 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.

Research Area

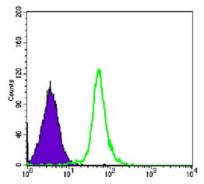
Image Data



Western blot analysis using SMC1 mouse mAb against K562 (1), Jurkat (2) and A549 (3) cell lysate.



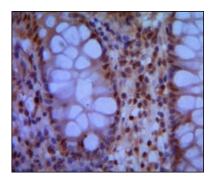
Immunofluorescence analysis of NIH/3T3 cells using SMC1 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of Hela cells using SMC1 mouse mAb (green) and negative control (purple).

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Immunohistochemical analysis of paraffin-embedded human colon using SMC1 mouse mAb with DAB staining.