

Anti-SMC1A(N-term) Monoclonal Antibody

Cat: AC50457

Summary:

【Product name】 : Anti-SMC1A(N-term) **【Source】** : Mouse

antibody

【Isotype】 : IgG1

【Species reactivity】 : Human

【Swiss Prot】 : Q14683

【Gene ID】 : 8243

【Calculated】 : MW:143kDa

【Observed】 : MW:140kDa

【Purification】 : Affinity purification

【Tested applications】 : WB, IHC, FC

【Recommended dilution】 : WB 1:500-2000. IHC 1:500-1000.

【WB Positive sample】 : HeLaNE, Jurkat and A431 cell lysates

【IHC Positive sample】 : Human colon tissue

【Subcellular location】 : Chromosome Nucleus centromere kinetochore

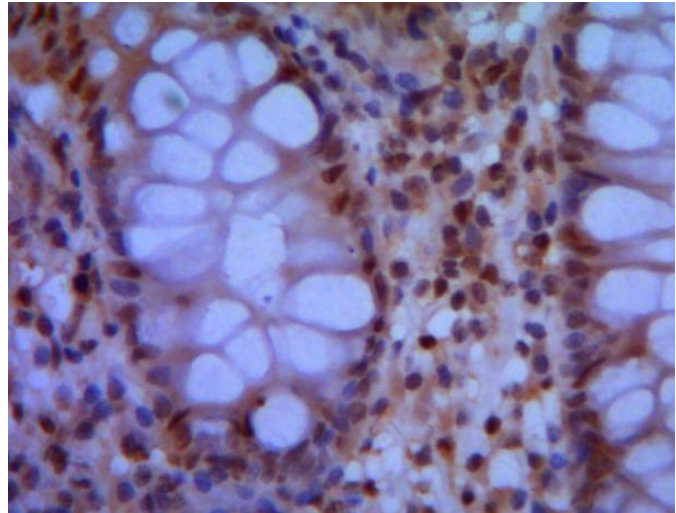
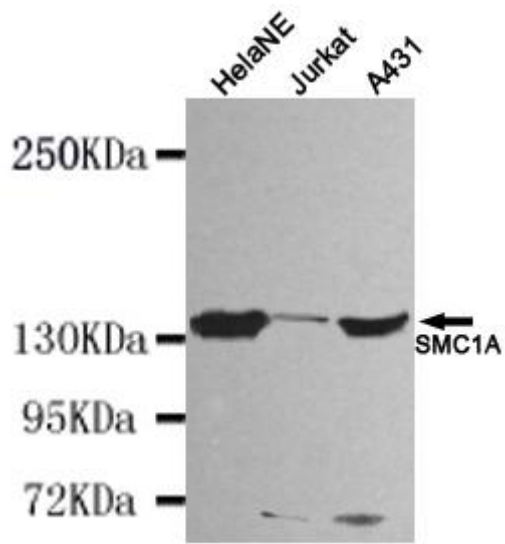
【Immunogen】: Purified recombinant human SMC1A(N-terminus) protein fragments expressed in E.coli.

【Storage】 : Shipped at 4°C. Upon delivery aliquot and store at -20°C

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.

Verified picture



Western blot analysis with SMC1A(N-term) antibody diluted at 1:700

Immunohistochemistry of paraffin-embedded Human colon tissue with SMC1A(N-term) antibody diluted at 1:500-1000