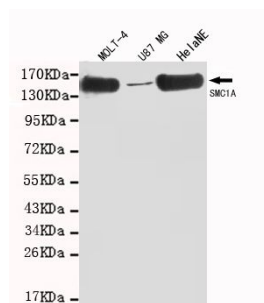




SMC1A (C-term)

Mouse monoclonal Antibody

#53168

Catalog Number: 53168**Amount:** 100µg/100µl**Swiss-Prot No. :** Q14683**Gene name:** smc1a**Gene id:** 8243**Clone Number:** 4C5-C8-A11**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant human SMC1A(C-term) protein fragments expressed in E.coli.**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of SMC1A and does not cross-react with related proteins**Reactivity:** Human**Applications:** Predicted MW: 143 kd WB: 1:1000 ICC:1:100

Western blot detection of SMC1A(C-term) in MOLT-4, U87 MG and HeLaNE cell lysates using SMC1A (N-terminus) mouse mAb (1:1000 diluted). Predicted band size: 143KDa. Observed band size: 143KDa.

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.