

# SMC1A (C-terminus) monoclonal antibody

Catal	og:	MB0008
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Host: Mouse

Reactivity: Human

## BackGround:

Involved in chromosome cohesion during cell cycle and in DNA repair. Central component of cohesin complex. 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 cohesin complex may also play a role in spindle pole assembly during mitosis. Involved in DNA repair via its interaction with BRCA1 and its related phosphorylation by ATM, or via its phosphorylation by ATR. Works as a downstream effector both in the ATM/NBS1 branch and in the ATR/MSH2 branch of S-phase checkpoint.

**Product:** 

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

#### **Molecular Weight:**

Predicted band size:143KDa

Observed band size:143KDa

#### **Swiss-Prot:**

Q14683

#### **Purification&Purity:**

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immuno-

#### gen and the purity is > 95% (by SDS-PAGE).

**Applications:** 

WB: 1:1000

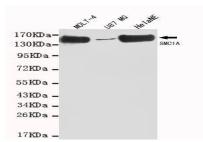
#### **Storage&Stability:**

Store at  $4 \,^{\circ}{\rm C}$  short term. Aliquot and store at  $-20 \,^{\circ}{\rm C}$  long term. Avoid freeze-thaw cycles.

#### **Specificity:**

This antibody detects endogenous levels of SMC1A(C-term) and does not cross-react with related proteins

#### **DATA:**



Western blot detection of SMC1A in MOLT-4, U87 MG&HelaNE cell

lysate (1:1000 diluted)

### Note:

For research use only, not for use in diagnostic procedure.

# Bioworld Technology, Inc.

 Add:
 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416,USA.

 Email:
 info@bioworlde.com

 Tel:
 6123263284

 Fax:
 6122933841

## Bioworld technology, co. Ltd.

 
 Add:
 No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

 Email:
 info@biogot.com

 Tel:
 0086-025-68037686

 Fax:
 0086-025-68035151