

## **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

## **SMC1A MOUSE MAB**

Cat.#: N261522

**Product Name:** Anti-SMC1A Mouse Monoclonal Antibody

**Synonyms:** Chromosome segregation protein SmcB; DXS423E; KIAA0178; MGC138332; Sb1.8; Segregation of mitotic chromosomes 1; SMC protein 1A; SMC-1-alpha; SMC-1A; SMC1 (structural maintenance of chromosomes 1 yeast) like 1; SMC1; SMC1 structural maintenance of chromosomes 1 like 1; SMC1A; SMC1A\_HUMAN; SMC1alpha; SMC1L1; SMCB; Structural maintenance of chromosomes 1A; Structural maintenance of chromosomes protein 1A.

**UNIPROT ID:** Q14683

**Background:** Structural maintenance of chromosomes 1 (SMC1) protein is a chromosomal protein member of the cohesin complex that enables sister chromatid cohesion and plays a role in DNA repair. ATM/NBS1-dependent phosphorylation of SMC1 occurs at Ser957 and Ser966 in response to ionizing radiation (IR) as part of the intra-S-phase DNA damage checkpoint. SMC1 phosphorylation is ATM-independent in cells subjected to other forms of DNA damage, including UV light and hydroxyurea treatment.

Immunogen: Purified recombinant human SMC1A(C-term.) protein

fragments expressed in E.coli.

**Applications:** WB,ICC/IF

**Recommended Dilutions:** WB: 1/500-1/1000 IF: 1/50-1/200

Host Species: Mouse

**Clonality:** Mouse Monoclonal

Clone ID: 4C5-C8-A11

MW: Calculated MW: 143 kDa; Observed MW: 143 kDa

Isotype: IgG1

Purification: Affinity Purified Species Reactivity: Human Conjugation: Unconjugated Modification: Unmodified

Constituents: PBS (without Mg2+ and Ca2+), pH 7.3 containing 50%

glycerol, 0.5% BSA and 0.02% sodium azide

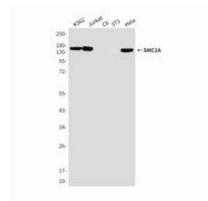
Research Areas: Cell Biology

Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



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Western blot analysis of SMC1A(Cterm) in K562, Jurkat, C6, 3T3 and Hela lysates using SMC1A (Nterminus) antibody.