SMC1A (4C5) MOUSE MAB

Cat.#: N261019

Product Name: Anti-SMC1A (4C5) 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
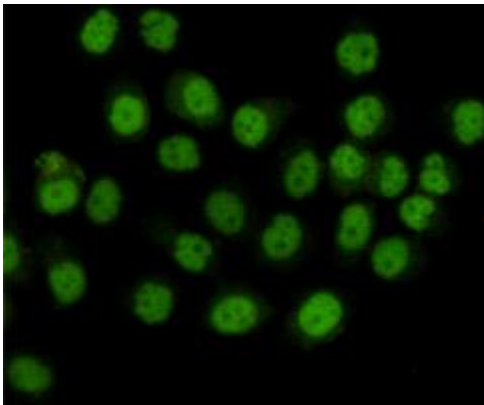
Species Reactivity: Human

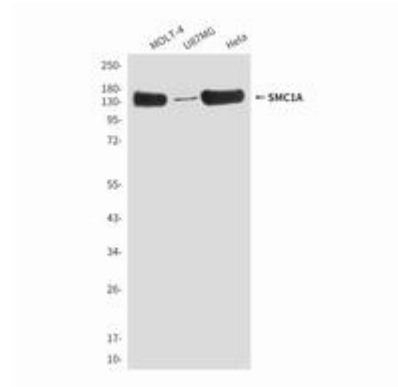**Conjugation:** Unconjugated

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 -20ºC. Avoid repeated freezing and thawing

Immunocytochemistry analysis of SMC1A (4C5) in HeLa using SMC1A antibody.

Western blot analysis of SMC1A(Cterm) in MOLT4, U87 MG and HelaNE lysates using SMC1A (Nterminus) antibody.