

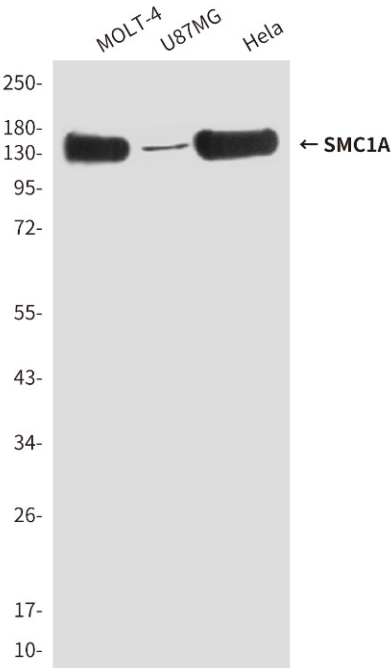
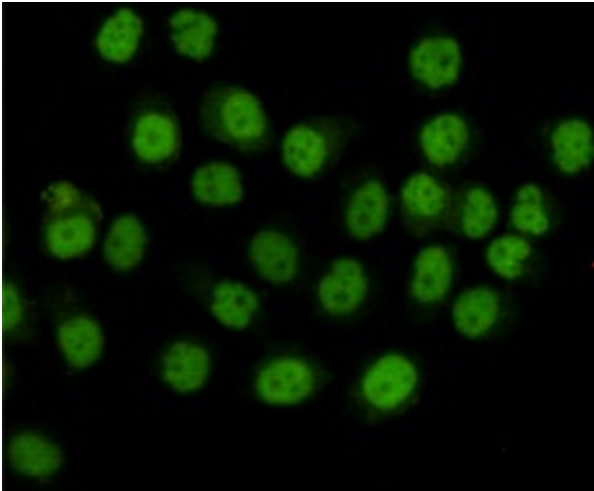
	<h1>SMC1A (4C5) Mouse mAb</h1>	E 2 2 0 0 2 5 7
--	--------------------------------	--------------------------------------

Research Area:	Autophagy antibody Cancer Cardiovascular Cell Biology Epigenetics & Nuclear Signaling Developmental Biologys Immunology Drug Discovery Products Metabolism Neuroscience Signal Transduction Stem Cells
Antibody type:	Monoclonal Antibody
Applications:	WB,ICC/IF
Reactivity:	Human
Molecular Weight:	Calculated MW: 143 kDa; Observed MW: 143 kDa
Immunogen:	Purified recombinant human SMC1A(C-term.) protein fragments expressed in E.coli.
Gene ID:	8243
Swiss-Prot No.:	Q14683
Altername:	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.
Source:	Mouse

For Research Use Only

Isotype:	IgG1
Clone Number:	4C5-C8-A11
Purification:	Affinity Purified
Storage/Stability:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
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.
Shipping&Stablity:	Aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Product Type:	Primary Antibody
Gene Name:	SMC1A
Recommended Dilutions:	WB: 1/500-1/1000 IF: 1/50-1/200
Form of Antibody:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

For Research Use Only

	
	Western blot analysis of SMC1A(Cterm) in MOLT4, U87 MG and HeLaNE lysates using SMC1A (Nterminus) antibody.
	
	Immunocytochemistry analysis of SMC1A (4C5) in HeLa using SMC1A antibody.