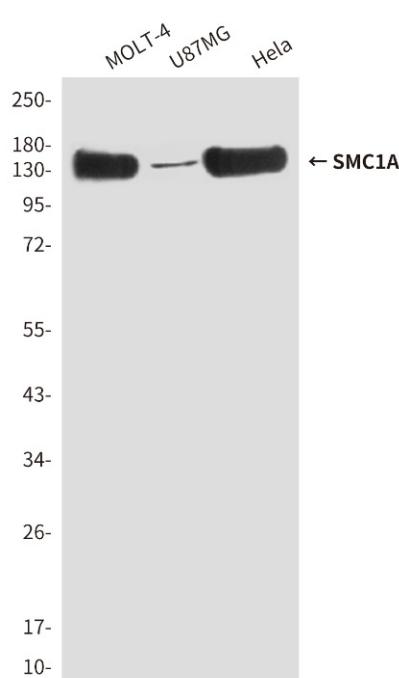


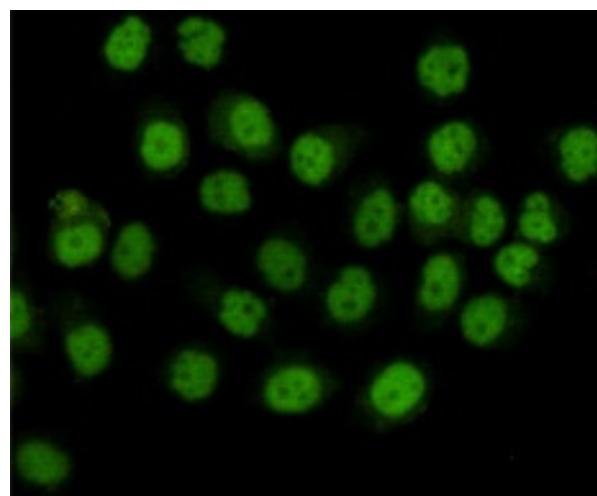


Research Area:	Autophagy antibody Cancer Cardiovascular Cell Biology Epigenetics & Nuclear Signaling Developmental Biologys Immunology Drug Discovery Products Metabolism Neuroscience Signal Transduction Stem Cells
Antibody type:	Monoclonal Antibody
Applications:	WB,ICC/IF
Reactivity:	Human
Molecular 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
Alternname:	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

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&Stability:	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.



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.