

SMC1 Conjugated Antibody

Catalog No: #C49114



Package Size: #C49114-AF350 100ul #C49114-AF405 100ul #C49114-AF488 100ul

#C49114-AF555 100ul #C49114-AF594 100ul #C49114-AF647 100ul

#C49114-AF680 100ul #C49114-AF750 100ul #C49114-Biotin 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	SMC1 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	CDLS2 antibody DKFZp686L19178 antibody DXhXs423e antibody DXS423E antibody KIAA0178 antibody MGC138332 antibody OTTHUMP00000061876 antibody RP6 29D12.1 antibody SB1.8 antibody Segregation of mitotic chromosomes 1 antibody Segregation of mitotic chromosomes like 1 antibody SMC 1 antibody SMC protein 1B antibody SMC-1-beta antibody SMC-1B antibody SMC1 antibody SMC1A antibody SMC1alpha antibody SMC1alpha protein antibody SMC1B antibody SMC1B_HUMAN antibody SMC1BETA antibody SMC1beta protein antibody SMC1L1 antibody SMC1L2 antibody SMCB antibody Structural maintenance of chromosome 1 like 1 protein antibody Structural maintenance of chromosome 1 like 2 protein antibody Structural maintenance of chromosomes 1A antibody Structural maintenance of chromosomes 1B antibody Structural maintenance of chromosomes protein 1B antibody
Accession No.	Swiss-Prot#:Q14683
Uniprot	Q14683
GeneID	8243;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	143 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

The SMC (structural maintenance of chromosomes) family of proteins form heterodimeric complexes that modulate sister chromatid cohesion and chromosome condensation for mitosis. SMC1 α (structural maintenance of chromosomes protein 1A), also known as SMC1, SMCB, CDLS2, SB1.8, SMC1L1 or DXS423E, is a 1,233 amino acid nuclear protein that is involved in chromosome cohesion during the cell cycle. SMC1 α interacts with BRCA1 and is phosphorylated by ATM, indicating a potential role in DNA repair. SMC1 α is a component of the cohesion complex, which is required for the cohesion of sister chromatids after DNA replication. Mutations in the gene encoding SMC1 α may be the cause of Cornelia de Lange syndrome (CdLS), which is a clinically heterogeneous developmental disorder characterized by facial dysmorphism, upper limb malformations, growth and cognitive retardation.

Note: This product is for in vitro research use only