

	<h1>SMC1A Rabbit pAb</h1>	E 2 5 1 2 2 4 0
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<b>Swiss-Prot No.:</b>	Q14683
<b>Altername:</b>	SMC1A
<b>Storage/Stability:</b>	Store at -20°C. Avoid freeze / thaw cycles.
<b>Immunogen:</b>	Recombinant fusion protein containing a sequence corresponding to amino acids 1-130 of human SMC1A (NP_006297.2).
<b>Purification:</b>	Affinity purified
<b>Reactivity:</b>	Human
<b>Other Names:</b>	SMC1; SMCB; CDLS2; SB1.8; SMC1L1; DXS423E; SMC1alpha
<b>Cellular localization:</b>	Centromere, Chromosome, Kinetochore, Nucleus
<b>Relevance:</b>	Involved in chromosome cohesion during cell cycle and in DNA repair. Central component of cohesin complex. The cohesin complex is required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. The cohesin complex may also play a role in spindle pole assembly during mitosis. Involved in DNA repair via its interaction with BRCA1 and its related phosphorylation by ATM, or via its phosphorylation by ATR. Works as a downstream effector both

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	in the ATM/NBS1 branch and in the ATR/MSH2 branch of S-phase checkpoint.
<b>Source:</b>	Rabbit
<b>Antibody type:</b>	Polyclonal antibody
<b>Isotype:</b>	Rabbit IgG
<b>Molecular Weight:</b>	143kDa
<b>Preservative:</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
<b>Recommended Dilutions:</b>	IF 1:50 - 1:200(Optimal dilutions should be determined by the end user)