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SMC1 (phospho Ser957) Polyclonal Antibody

Catalog No	YP-Ab-01275
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	SMC1A
Protein Name	Structural maintenance of chromosomes protein 1A
Immunogen	The antiserum was produced against synthesized peptide derived from human SMC1 around the phosphorylation site of Ser957. AA range:931-980
Specificity	Phospho-SMC1 (S957) Polyclonal Antibody detects endogenous levels of SMC1 protein only when phosphorylated at S957.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000 IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CMC1A, DVC422F, VIAA0170, CD1 0, CMC1, CMC1I 1, Ctructural maintanance
	SMC1A; DXS423E; KIAA0178; SB1.8; SMC1; SMC1L1; Structural maintenance of chromosomes protein 1A; SMC protein 1A; SMC-1-alpha; SMC-1A; Sb1.8
Observed Band	
Observed Band Cell Pathway	of chromosomes protein 1A; SMC protein 1A; SMC-1-alpha; SMC-1A; Sb1.8
	of chromosomes protein 1A; SMC protein 1A; SMC-1-alpha; SMC-1A; Sb1.8 143kD Nucleus . Chromosome . Chromosome, centromere, kinetochore . Associates with chromatin. Before prophase it is scattered along chromosome arms. During prophase, most of cohesin complexes dissociate from chromatin probably because of phosphorylation by PLK, except at centromeres, where cohesin complexes remain. At anaphase, the RAD21 subunit of the cohesin complex is cleaved, leading to the dissociation of the complex from chromosomes, allowing chromosome separation. In germ cells, cohesin complex dissociates from chromatin at prophase I, and may be replaced by a meiosis-specific cohesin complex. The phosphorylated form on Ser-957 and Ser-966 associates with chromatin during G1/S/G2 phases but not during M phase, suggesting that



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various other malformations including gastroesophageal dysfunction and cardiac, ophthalmologic and genitourinary anomalies.,domain:The flexible hinge domain, which separates the large intramolecular coiled coil regions, allows the heterotypic interaction with the corresponding domain of SMC3, forming a V-shaped heterodimer. The two heads of the heterodimer are then connected by different ends of the cleavable RAD21 protein, forming a ring structure.,function:Involved in chromosome cohesion during cell cycle and in DNA

Background

structural maintenance of chromosomes 1A(SMC1A) Homo sapiens Proper cohesion of sister chromatids is a prerequisite for the correct segregation of chromosomes during cell division. The cohesin multiprotein complex is required for sister chromatid cohesion. This complex is composed partly of two structural maintenance of chromosomes (SMC) proteins, SMC3 and either SMC1B or the protein encoded by this gene. Most of the cohesin complexes dissociate from the chromosomes before mitosis, although those complexes at the kinetochore remain. Therefore, the encoded protein is thought to be an important part of functional kinetochores. In addition, this protein interacts with BRCA1 and is phosphorylated by ATM, indicating a potential role for this protein in DNA repair. This gene, which belongs to the SMC gene family, is located in an area of the X-chromosome that escapes X inactivation. Mutations in this gene result in Cornelia de Lange syndrome. Altern

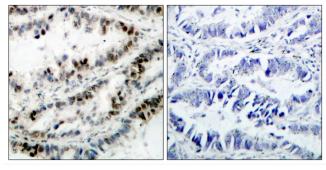
matters needing attention

Avoid repeated freezing and thawing!

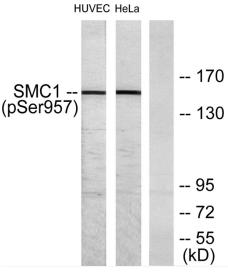
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using SMC1 (Phospho-Ser957) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HUVEC cells treated with EGF 200ng/ml 5'/HeLa cells treated with EGF 200ng/ml 15', using SMC1 (Phospho-Ser957) Antibody. The lane on the right is blocked with the phospho peptide.