

Phospho-SMC1 (Ser957) Ab

Cat.#: AF3439 Size: 100ul,200ul	Concn.: 1mg/ml Source: Rabbit	Mol.Wt.: 145kDa Clonality: Polyclonal
Application:	WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500	
Reactivity:	Human, Mouse	
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.	
Specificity:	Phospho-SMC1 (Ser957) Ab detects endogenous levels of SMC1 only when phosphorylated at Serine 957.	
Immunogen:	A synthesized peptide derived from human SMC1 around the phosphorylation site of Serine 957.	
Uniprot:	Q14683	
Description:	Smc1 ia a component of the co that is required for sister chrom cohesin complexes dissociate fi mitosis, although those comple remain. Thought to be an impor kinetochores.	natid cohesion. Most of the rom the chromosomes before xes at the kinetochore
Subcellular Location:	Nucleus. Chromosome. Chromo kinetochore. Associates with ch is scattered along chromosome of cohesin complexes dissociate because of phosphorylation by where cohesin complexes rema subunit of the cohesin complex dissociation of the complex fror chromosome separation. In ger dissociates from chromatin at p replaced by a meiosis-specific of phosphorylated form on Ser-95 chromatin during G1/S/G2 phas suggesting that phosphorylatio function. Integral component of kinetochore complex at the kine mitosis.	romatin. Before prophase it arms. During prophase, most e from chromatin probably PLK, except at centromeres, ain. At anaphase, the RAD21 is cleaved, leading to the m chromosomes, allowing m cells, cohesin complex prophase I, and may be cohesin complex. The 7 and Ser-966 associates with thes but not during M phase, n does not regulate cohesin f the functional centromere-
Similarity:	The flexible hinge domain, whic intramolecular coiled coil region interaction with the correspond a V-shaped heterodimer. The tw are then connected by different	ns, allows the heterotypic ing domain of SMC3, forming vo heads of the heterodimer

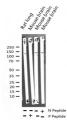


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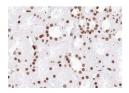
protein, forming a ring structure (By similarity).Belongs to the SMC family. SMC1 subfamily.

Storage Condition and Buffer:

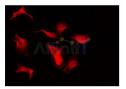
Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



Western blot analysis of Phospho-SMC1 (Ser957) expression in various lysates



AF3439 at 1/100 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



AF3439 staining HuvEc by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

<code>IMPORTANT:</code> For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.

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