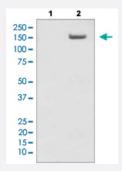


# SMC1A (phospho S957) monoclonal antibody, clone FCI-19

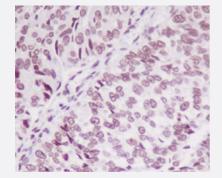
Catalog # MAB22316 Size 100 uL

## **Applications**



### Western Blot (Cell lysate)

Western blot analysis of Phospho-SMC1A (S957) expression in Lane 1: HeLa cell lysate, Lane 2: Hela cells lysate treated with AP.



# Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human bladder cancer. Phospho-SMC1A (S957) was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH 6, epitope retrieval solution) for 20 minutes. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/mL SMC1A (phospho S957) monoclonal antibody, clone FCI-19 overnight at 4°C. Biotinylated goat anti Rabbit IgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

Specification	
Product Description	Rabbit monoclonal antibody raised against synthetic phosphopeptide of human SMC1A.
lmmunogen	Synthetic phosphopeptide corresponding to residues surrounding S957 of human SMC1A.
Host	Rabbit
Reactivity	Human



#### **Product Information**

Form	Liquid
Purification	Affinity purification
Isotype	lgG
Recommend Usage	Immunocytochemistry (1:50-1:200) Immunofluorescence(1:50-1:200)
	Immunohistochemistry (1:50-1:200)
	Western Blot (1:500-1:2000)
	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C for short term. For long term storage, store at -20°C.
	Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul
	d be handled by trained staff only.

## **Applications**

Western Blot (Cell lysate)

Western blot analysis of Phospho-SMC1A (S957) expression in Lane 1: HeLa cell lysate, Lane 2: Hela cells lysate treated with AP.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human bladder cancer. Phospho-SMC1A (S957) was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH 6, epitope retrieval solution) for 20 minutes. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/mL SMC1A (phospho S957) monoclonal antibody, clone FCI-19 overnight at 4°C. Biotinylated goat anti Rabbit lgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.

- Immunocytochemistry
- Immunofluorescence

Cana	la fa	CNACAA
Gene	mio —	SMC1A

Entrez GenelD	<u>8243</u>
Protein Accession#	Q14683
Gene Name	SMC1A



# **Product Information**

Gene Alias	CDLS2, DKFZp686L19178, DXS423E, KIAA0178, MGC138332, SB1.8, SMC1, SMC1L1, SMC1alpha, SMCB
Gene Description	structural maintenance of chromosomes 1A
Omim ID	300040 300590
Gene Ontology	<u>Hyperlink</u>
Gene Summary	Proper cohesion of sister chromatids is a prerequisite for the correct segregation of chromosome s 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 SMC1L2 or the protein encoded by this gene. Most of the cohesin complexes di ssociate from the chromosomes before mitosis, although those complexes at the kinetochore rem ain. 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 r ole 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. [provided by RefSeq
Other Designations	OTTHUMP0000061876 SMC1 (structural maintenance of chromosomes 1, yeast)-like 1 SMC1 structural maintenance of chromosomes 1-like 1 segregation of mitotic chromosomes 1

# Pathway

• Cell cycle

## Disease

De Lange Syndrome