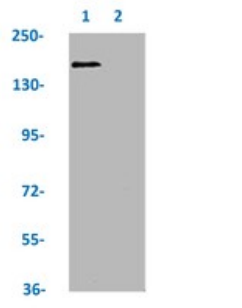
RecomAb™

SMC1A (phospho S957) recombinant monoclonal antibody, clone 1F9

Catalog # RAB04254 Size 100 uL

Applications



Western Blot

Western blot analysis of Lane 1: 293 whole cell lysate (treated with Calyculin A 100 nM/60 mins) and Lane 2: 293 whole cell lysate (not treated) with SMC1A (phospho S957) recombinant monoclonal antibody, clone 1F9 (Cat # RAB04254).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human SMC1A.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g S957 of human SMC1A.
Theoretical MW (kDa)	Calculated MW: 160 k
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.

Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °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

  Western blot analysis of Lane 1: 293 whole cell lysate (treated with Calyculin A 100 nM/60 mins) and Lane 2: 293 whole cell lysate (not treated) with SMC1A (phospho S957) recombinant monoclonal antibody, clone 1F9 (Cat # RAB04254).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — SMC1A

Entrez GeneID	8243
Protein Accession#	Q14683
Gene Name	SMC1A
Gene Alias	CDLS2, DKFZp686L19178, DXS423E, KIAA0178, MGC138332, SB1.8, SMC1, SMC1L1, SM C1alpha, SMCB
Gene Description	structural maintenance of chromosomes 1A
Omim ID	300040 300590
Gene Ontology	Hyperlink
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	OTTHUMP00000061876|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