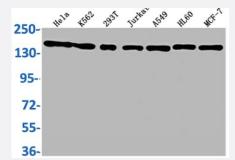


 $Recom Ab^{\scriptscriptstyle\mathsf{TM}}$

SMC1A recombinant monoclonal antibody, clone 8C11

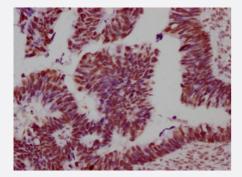
Catalog # RAB04013 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: Hela whole cell lysate; Lane 2: K562 whole cell lysate; Lane 3: 293T whole cell lysate; Lane 4: Jurkat whole cell lysate; Lane 5: A549 whole cell lysate; Lane 6: HL60 whole cell lysate; Lane 7: MCF-7 whole cell lysate.



Immunohistochemistry

Immunohistochemistry image of SMC1A recombinant monoclonal antibody, clone 8C11 diluted at 1:100 and staining in paraffin-embedded human ovarian cancer performed on a Leica BondTM system.

Specification	
Product Description	Rabbit recombinant monoclonal antibody raised against human SMC1A.
Antibody Species	Rabbit
lmmunogen	Original antibody is raised against recombinant protein corresponding to full length human SMC1A.
Reactivity	Human
Form	Liquid
Purification	Affinity-chromatography



Product Information

lgG
ELISA
Immunohistochemistry (1:50-1:200)
Western Blot (1:500-1:5000)
The optimal working dilution should be determined by the end user.
In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
store at -20 °C or -80 °C.
Aliquot to avoid repeated freezing and thawing.
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: Hela whole cell lysate; Lane 2: K562 whole cell lysate; Lane 3: 293T whole cell lysate; Lane 4: Jurkat whole cell lysate; Lane 5: A549 whole cell lysate; Lane 6: HL60 whole cell lysate; Lane 7: MCF-7 whole cell lysate.

Immunohistochemistry

Immunohistochemistry image of SMC1A recombinant monoclonal antibody, clone 8C11 diluted at 1:100 and staining in paraffinembedded human ovarian cancer performed on a Leica BondTM system.

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, SMC1alpha, SMCB
Gene Description	structural maintenance of chromosomes 1A
Omim ID	300040 300590
Gene Ontology	<u>Hyperlink</u>



Product Information

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