Anti-SMC1A antibody

Cat. No.	ml123183
Package	25 μl/100 μl/200 μl
Storage	-20°C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Product overview

Description	Anti-SMC1A rabbit polyclonal antibody
Applications	ELISA, WB, IHC
Immunogen	Fusion protein of human SMC1A
Reactivity	Human, Mouse, Rat
Content	0.5 mg/ml
Host species	Rabbit
Ig class	Immunogen-specific rabbit IgG
Purification	Antigen affinity purification

Target information

Symbol	SMC1A
Full name	structural maintenance of chromosomes 1A
Synonyms	SMC1; SMCB; CDLS2; SB1.8; SMC1L1; DXS423E; SMC1alpha
Swissprot	Q14683

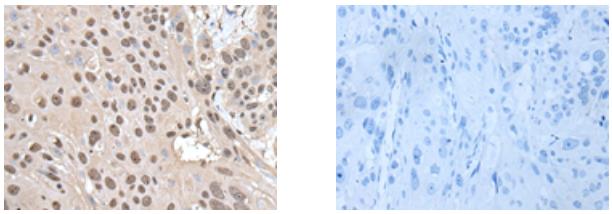
Target Background

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. Alternative splicing results in multiple transcript variants encoding different isoforms.

Applications

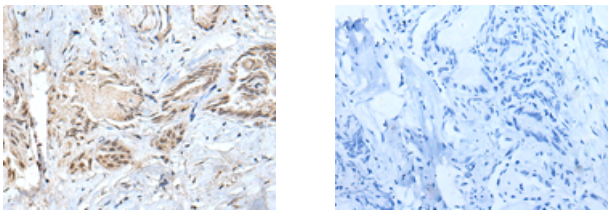
Immunohistochemistry

Predicted cell location: Nucleus
Positive control: Human esophagus cancer
Recommended dilution: 25-100



The image on the left is immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using ml123183(SMC1A Antibody) at dilution 1/30, on the right is treated with fusion protein. (Original magnification: ×200)

Predicted cell location: Nucleus
Positive control: Human thyroid cancer
Recommended dilution: 25-100

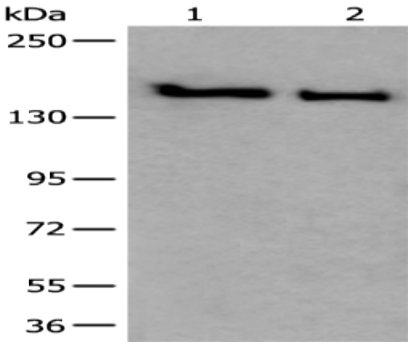


The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using ml123183(SMC1A Antibody) at dilution 1/30, on the right is treated with fusion protein. (Original magnification: ×200)

Western blotting

Predicted band size:143 kDa
Positive control:HUVEC and Jurkat cell lysates
Recommended dilution: 500-2000

Gel: 6%SDS-PAGE
Lysate: 40 μg
Lane 1-2: HUVEC and Jurkat cell lysates
Primary antibody: ml123183(SMC1A Antibody) at dilution 1/300
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution
Exposure time: 30 seconds



ELISA

Recommended dilution: 5000-10000

联系电话：4008-898-798，021-61725725

联系QQ：2881505695，2881505696

邮箱：mlbio_cn@yeah.net

网址：www.mlbio.cn