

Product datasheet for TA365027

SMC1 (SMC1A) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: WB: 500-2000

WB positive control: HUVEC and Jurkat cell lysates

IHC: 25-100

Positive control: Human esophagus cancer

Predicted cell location: Nucleus

Reactivity: Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Fusion protein of human SMC1A

Formulation: pH7.4 PBS, 0.05% NaN3, 40% Glycerol

Concentration: lot specific

Purification: Antigen affinity purification

Conjugation: Unconjugated Storage: Store at -20°C.

Stability: 1 year Predicted Protein Size: 143 kDa

Gene Name: structural maintenance of chromosomes 1A

Database Link: Entrez Gene 8243 Human

Q14683

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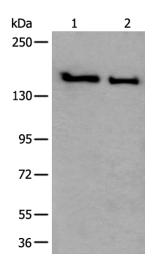
Background:

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.

Synonyms:

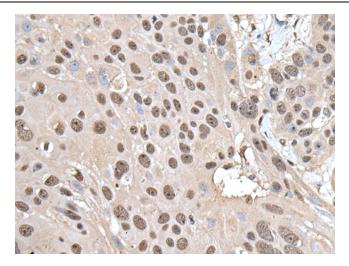
CDLS2; DKFZp686L19178; DXS423E; KIAA0178; MGC138332; SB1.8; SMC1; SMC1alpha; SMC1L1; SMCB

Product images:

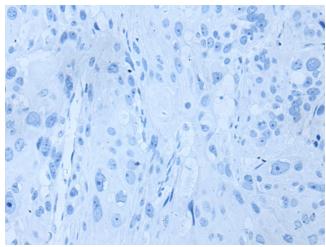


Gel: 6%SDS-PAGE Lysate: 40 µg Lane 1-2: HUVEC and Jurkat cell lysates Primary antibody: TA365027 (SMC1A Antibody) at dilution 1/300 Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution Exposure time: 30 seconds

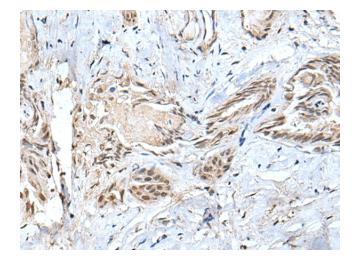




Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA365027 (SMC1A Antibody) at dilution 1/30 (Original magnification: ×200)

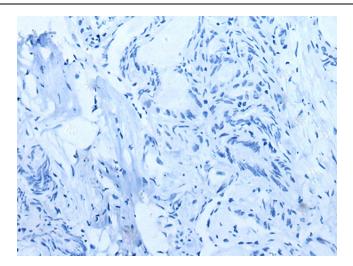


Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA365027 (SMC1A Antibody) at dilution 1/30, treated with fusion protein. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA365027 (SMC1A Antibody) at dilution 1/30 (Original magnification: ×200)





Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA365027 (SMC1A Antibody) at dilution 1/30, treated with fusion protein. (Original magnification: ×200)