

SGOL1 Rabbit pAb

Catalog No.: A16174

Basic Information

Observed MW

75kDa

Calculated MW

64kDa

Category

Primary antibody

Applications

ELISA, WB, IF/ICC

Cross-Reactivity

Human, Mouse, Rat

Background

The protein encoded by this gene is a member of the shugoshin family of proteins. This protein is thought to protect centromeric cohesin from cleavage during mitotic prophase by preventing phosphorylation of a cohesin subunit. Reduced expression of this gene leads to the premature loss of centromeric cohesin, mis-segregation of sister chromatids, and mitotic arrest. Evidence suggests that this protein also protects a small subset of cohesin found along the length of the chromosome arms during mitotic prophase. An isoform lacking exon 6 has been shown to play a role in the cohesion of centrioles (PMID: 16582621 and PMID:18331714). Mutations in this gene have been associated with Chronic Atrial and Intestinal Dysrhythmia (CAID) syndrome, characterized by the co-occurrence of Sick Sinus Syndrome (SSS) and Chronic Intestinal Pseudo-obstruction (CIPO) within the first four decades of life (PMID:25282101). Fibroblast cells from CAID patients exhibited both increased cell proliferation and higher rates of senescence. Pseudogenes of this gene have been found on chromosomes 1 and 7. Alternative splicing results in multiple transcript variants.

Recommended Dilutions

WB 1:500 - 1:2000**IF/ICC** 1:50 - 1:200

Immunogen Information

Gene ID

151648

Swiss Prot

Q5FBB7

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 10-100 of human SGOL1 (NP_612493.1).

Synonyms

SGO; CAID; SGOL1; NY-BR-85

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

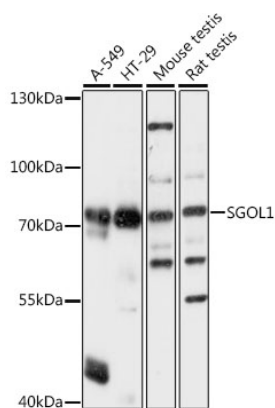
Affinity purification

Storage

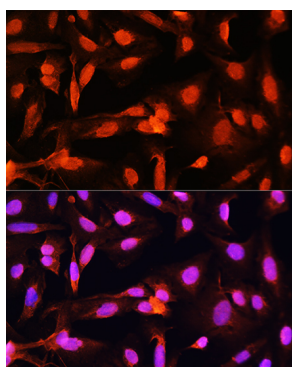
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of various lysates using SGOL1 Rabbit pAb (A16174) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.



Immunofluorescence analysis of U2OS cells using SGOL1 Rabbit pAb (A16174) at dilution of 1:100. Blue: DAPI for nuclear staining.