

**SGOL2 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20106c****Specification**

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**SGOL2 Antibody (Center) - Product Information**

|                   |                             |
|-------------------|-----------------------------|
| Application       | WB,E                        |
| Primary Accession | <a href="#">Q562F6</a>      |
| Other Accession   | <a href="#">NP_689737.3</a> |
| Reactivity        | Human                       |
| Host              | Rabbit                      |
| Clonality         | Polyclonal                  |
| Isotype           | Rabbit IgG                  |
| Calculated MW     | 144739                      |
| Antigen Region    | 391-419                     |

**SGOL2 Antibody (Center) - Additional Information****Gene ID** 151246**Other Names**

Shugoshin-like 2, Shugoshin-2, Sgo2, Tripin, SGOL2

**Target/Specificity**

This SGOL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 391-419 amino acids from the Central region of human SGOL2.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

SGOL2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**SGOL2 Antibody (Center) - Protein Information****Name** SGO2 ([HGNC:30812](#))**Synonyms** SGOL2

**Function** Cooperates with PPP2CA to protect centromeric cohesin from separase-mediated cleavage in oocytes specifically during meiosis I. Has a crucial role in protecting REC8 at centromeres from cleavage by separase. During meiosis, protects centromeric cohesin complexes until metaphase II/anaphase II transition, preventing premature release of meiosis-specific REC8 cohesin complexes from anaphase I centromeres. Is thus essential for an accurate gametogenesis. May act by targeting PPP2CA to centromeres, thus leading to cohesin dephosphorylation (By similarity). Essential for recruiting KIF2C to the inner centromere and for correcting defective kinetochore attachments. Involved in centromeric enrichment of AUKRB in prometaphase.

#### Cellular Location

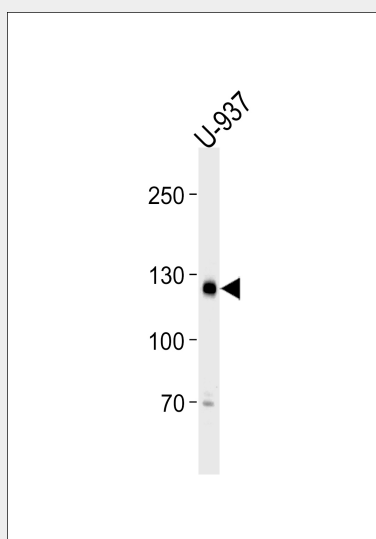
Nucleus. Chromosome, centromere. Chromosome, centromere, kinetochore {ECO:0000250|UniProtKB:Q7TSY8}. Note=During meiosis I, accumulates at centromeres during diplotene, and colocalizes differentially with the cohesin subunits RAD21 and REC8 at metaphase I centromeres (By similarity). SGO2 and RAD21 change their relative distributions during telophase I when sister-kinetochore association is lost (By similarity). During meiosis II, it shows a striking tension- dependent redistribution within centromeres throughout chromosome congression during prometaphase II, as it does during mitosis (By similarity). In Hela cells, localizes at centromeres throughout prophase until metaphase and disappears at anaphase (PubMed:17485487) Centromeric localization requires the presence of BUB1 and AUKRB (PubMed:17485487). {ECO:0000250|UniProtKB:Q7TSY8, ECO:0000269|PubMed:17485487}

#### SGOL2 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### SGOL2 Antibody (Center) - Images



SGOL2 Antibody (Center) (Cat. #AP20106c) western blot analysis in U-937 cell line lysates (35ug/lane). This demonstrates the SGOL2 antibody detected the SGOL2 protein (arrow).

#### **SGOL2 Antibody (Center) - Background**

Cooperates with PPP2CA to protect centromeric cohesin from separase-mediated cleavage in oocytes specifically during meiosis I. Has a crucial role in protecting REC8 at centromeres from cleavage by separase. During meiosis, protects centromeric cohesion complexes until metaphase II/anaphase II transition, preventing premature release of meiosis-specific REC8 cohesin complexes from anaphase I centromeres. Is thus essential for an accurate gametogenesis. May act by targeting PPP2CA to centromeres, thus leading to cohesin dephosphorylation (By similarity). Essential for recruiting KIF2C to the inner centromere and for correcting defective kinetochore attachments.

#### **SGOL2 Antibody (Center) - References**

Tanno, Y., et al. Genes Dev. 24(19):2169-2179(2010)  
Ross, C.J., et al. Nat. Genet. 41(12):1345-1349(2009)  
Lee, J., et al. Nat. Cell Biol. 10(1):42-52(2008)  
Huang, H., et al. J. Cell Biol. 177(3):413-424(2007)  
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