

# Anti-SGOL2 antibody ab122258

[1 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Anti-SGOL2 antibody
<b>Description</b>	Rabbit polyclonal to SGOL2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	antigen sequence: ESHSHSDQSS KTSMLSEMRN AQSIGRRWEK PSPSNVTERK KRGSSWESNN LSADTPCATV LDKQHISPE LNCNNEINGH TNETNTEMQR N, corresponding to amino acids 235-325 of Human SGOL2. <a href="#">Run BLAST with</a> <a href="#">ExPASy</a> <a href="#">Run BLAST with</a> <a href="#">NCBI</a>
<b>Positive control</b>	Human testis tissue; A431 cells.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab122258 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 0.25 - 2 µg/ml.
IHC-P		1/500 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

### 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 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.

### Sequence similarities

Belongs to the shugoshin family.

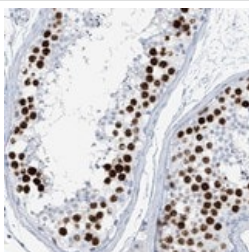
### Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

### Cellular localization

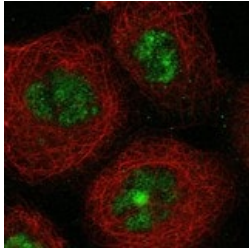
Nucleus. Chromosome > centromere. Chromosome > centromere > kinetochore. During meiosis I, accumulates at centromeres during diplotene, and co-localizes differentially with the cohesin subunits RAD21 and REC8 at metaphase I centromeres. SGO2 and RAD21 change their relative distributions during telophase I when sister-kinetochore association is lost. 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. Centromeric localization requires the presence of BUB1 and AUKRB.

## Images



ab122258, at 1/100, staining SGOL2 in paraffin embedded Human testis tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SGOL2 antibody (ab122258)



ab122258, at 4 µg/ml, staining SGOL2 in PFA/Triton X-100 fixed/permeabilized A431 cells by Immunofluorescence (green stain).

Immunocytochemistry/ Immunofluorescence - Anti-SGOL2 antibody (ab122258)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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