

**ARG45271**  
anti-SGO2 antibodyPackage: 50 µg  
Store at: -20°C

### Summary

Product Description	Polyclonal antibody recognizes SGO2
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	SGO2
Species	Human
Immunogen	Recombinant protein containing to human SGO2.
Conjugation	Un-conjugated
Alternate Names	SGO2; Shugoshin 2; TRIPIN; SGOL2; Shugoshin-Like 2; FLJ25211; Shugoshin-Like 2 (S. Pombe); Shugoshin-2; Tripin

### Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 <sup>6</sup> cells
	ICC/IF	5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	180 kDa	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

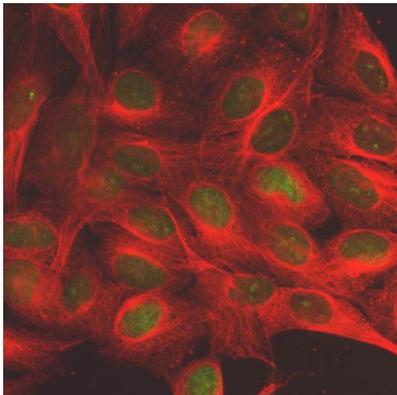
**Note**

For laboratory research only, not for drug, diagnostic or other use.

**Bioinformation**

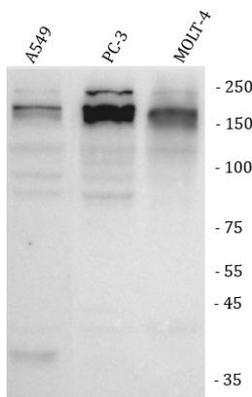
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Gene Symbol	SGO2
Gene Full Name	Shugoshin 2
Background	Predicted to be involved in meiotic sister chromatid cohesion. Predicted to act upstream of or within several processes, including meiotic nuclear division; meiotic sister chromatid cohesion; and positive regulation of maintenance of meiotic sister chromatid cohesion, centromeric. Located in chromosome, centromeric region and nuclear body. Part of mitotic cohesin complex. [provided by Alliance of Genome Resources, Nov 2024]
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 . [UniProt]
Calculated Mw	145 kDa
PTM	Phosphoprotein. [UniProt]
Cellular Localization	Cellular component; Centromere; Chromosome; Kinetochore; Nucleus. [UniProt]

**Images**

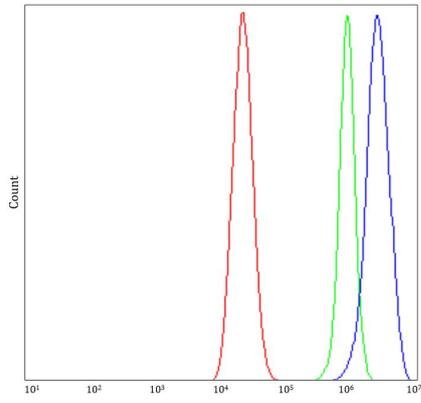
ARG45271 anti-SGO2 antibody ICC/IF image

Immunofluorescence: U2OS stained with ARG45271 anti-SGO2 antibody at 5 ug/ml dilution.



ARG45271 anti-SGO2 antibody WB image

Western blot: A549, PC-3 and MOLT-4 stained with ARG45271 anti-SGO2 antibody at 0.5 µg/ml dilution.



### ARG45271 anti-SGO2 antibody FACS image

Flow Cytometry: CACO-2 stained with ARG45271 anti-SGO2 antibody at 1 µg/10<sup>6</sup> cells dilution.