

Anti-Sgo2 antibody



Description	Rabbit polyclonal to Sgo2.
Model	STJ95641
Host	Rabbit
Reactivity	Human
Applications	ELISA, IHC
Immunogen	Synthesized peptide derived from human Sgo2
Immunogen Region	650-730 aa, Internal
Gene ID	151246
Gene Symbol	SGO2
Dilution range	IHC 1:100-1:300ELISA 1:10000
Specificity	Sgo2 Polyclonal Antibody detects endogenous levels of Sgo2 protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Shugoshin 2 Shugoshin-2 Shugoshin-like 2 Tripin
Molecular Weight	144.739 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG

Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:30812OMIM:612425
Alternative Names	Shugoshin 2 Shugoshin-2 Shugoshin-like 2 Tripin
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 . Essential for recruiting KIF2C to the inner centromere and for correcting defective kinetochore attachments. Involved in centromeric enrichment of AUKRB in prometaphase.
Cellular Localization	Nucleus Chromosome, centromere Chromosome, centromere, kinetochore. During meiosis I, accumulates at centromeres during diplotene, and colocalizes 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 . In Hela cells, localizes at centromeres throughout prophase until metaphase and disappears at anaphase . Centromeric localization requires the presence of BUB1 and AUKRB .