Best Tools for immunology Research

Sgo2 Polyclonal Antibody

Catalog No :	YT4276
Reactivity :	Human;Rat;Mouse;
Applications :	IHC;IF;ELISA
Target :	Sgo2
Gene Name :	SGOL2
Protein Name :	Shugoshin-like 2
Human Gene Id :	151246
Human Swiss Prot No :	Q562F6
Mouse Swiss Prot No :	Q7TSY8
Immunogen :	The antiserum was produced against synthesized peptide derived from human SGOL2. AA range:681-730
Specificity :	Sgo2 Polyclonal Antibody detects endogenous levels of Sgo2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	145kD

Background : function: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 (By similarity). May act by targeting PPP2CA to centromeres, thus leading to cohesin dephosphorylation.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,sequence caution:Contaminating sequence. Potential poly-A sequence.,similarity:Belongs to the shugoshin family.,subcellular location:In Hela cells, localizes at centromeres throughout prophase until metaphase and disappears at anaphase.,subunit:Directly interacts with PPP2CA.,

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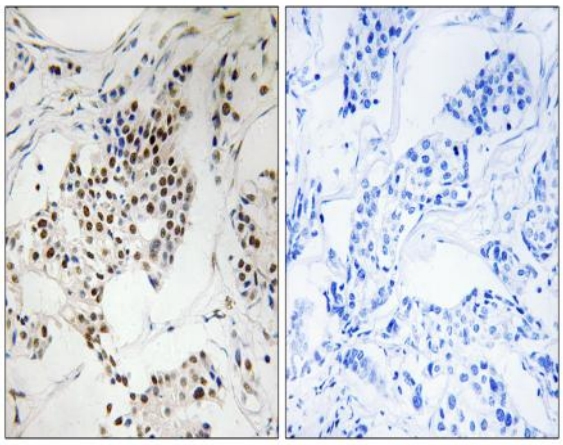
Subcellular Location : Nucleus . Chromosome, centromere . Chromosome, centromere, kinetochore . During meiosis I, accumulates at centromeres during diplotene, and colocalizes differentially with the cohesin subunits RAD21 and REC8 at metaphase I centromeres (By similarity). SGO2 and RAD21 change their 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). .

Expression : Epithelium,Lymph,Testis,Uterus,

Products Images



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using SGOL2 Antibody. The picture on the right is blocked with the synthesized peptide.