

产品名称: Sgo1 Rabbit Polyclonal Antibody

产品货号: APRab17827

产品概述 (Summary)

描述(Description)	Rabbit polyclonal Antibody
宿主(Host)	Rabbit
应用(Application)	WB,IHC,ICC/IF,ELISA
种属反应(Reactivity)	Human,Rat,Mouse
偶联物(Conjugation)	Unconjugated
修饰(Modification)	Unmodified
同种型(Isotype)	IgG
克隆(Clonality)	Polyclonal
剂型(Form)	Liquid
保存条件(Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液(Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化 (Purification)	Affinity purification

产品应用(Application)

稀释比(Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
分子量(Molecular Weight)	64kDa

抗原信息(Antigen Information)

基因名(Gene Name)	SGOL1
别名(Alternative Names)	SGOL1; SGO1; Shugoshin-like 1; hSgo1; Serologically defined breast cancer antigen NY-BR-85
基因 ID(Gene ID)	151648.0
SwissProt ID	Q5FBB7
免疫原(Immunogen)	The antiserum was produced against synthesized peptide derived from human SGOL1. AA range:271-320

研究背景 (Background)

The protein encoded by this gene is a member of the shugoshin family of proteins. This protein is thought to protect

centromeric cohesin from cleavage during mitotic prophase by preventing phosphorylation of a cohesin subunit. Reduced expression of this gene leads to the premature loss of centromeric cohesion, mis-segregation of sister chromatids, and mitotic arrest. Evidence suggests that this protein also protects a small subset of cohesin found along the length of the chromosome arms during mitotic prophase. An isoform lacking exon 6 has been shown to play a role in the cohesion of centrioles (PMID: 16582621 and PMID:18331714). Mutations in this gene have been associated with Chronic Atrial and Intestinal Dysrhythmia (CAID) syndrome, characterized by the co-occurrence of Sick Sinus Syndrome (SSS) and Chronic Intestinal Pseudo-obstruction (CIPO) within the first four decades of life (PMID:25282101). Fibrodevelopmental stage:Appears in prophase cells and remains present until metaphase. Strongly decreases at the onset of anaphase and completely disappears at telophase. Not present in interphase cells (at protein level).,domain:The D-box (destruction box) mediates the interaction with APC proteins, and may act as a recognition signal for degradation via the ubiquitin-proteasome pathway.,function:Plays a central role in chromosome cohesion during mitosis by preventing premature dissociation of cohesin complex from centromeres after prophase, when most of cohesin complex dissociates from chromosomes arms. May act by preventing phosphorylation of the STAG2 subunit of cohesin complex at the centromere, ensuring cohesin persistence at centromere until cohesin cleavage by ESPL1/separase at anaphase.,miscellaneous:Strongly overexpressed in 90% of breast cancers tested.,PTM:Ubiquitinated by the anaphase promoting complex (APC) at the onset of anaphase, conducting to its degradation.,similarity:Belongs to the shugoshin family.,subcellular location:Localizes to the centromere throughout prophase until metaphase and disappears at anaphase. BUB1 is required for centromeric localization. During prometaphase, it localizes to a single focus, while at metaphase, it localizes to 2 spots corresponding to the 2 centromeres.,subunit:Interacts with PPP2CA (or PPP2CB), PPP2R1B, PPP2R5A, PPP2R5B, PPP2R5C, PPP2R5D, PPP2R5E, SET, LRRC59, RBM10 (or RBM5), RPL10A, RPL28, RPL7, RPL7A and RPLP1. Interaction with protein phosphatase 2A occurs most probably through direct binding to the regulatory B56 subunits: PPP2R1B, PPP2R5A, PPP2R5B, PPP2R5C, PPP2R5D, PPP2R5E.,tissue specificity:Widely expressed. Highly expressed in testis. Expressed in lung, small intestine, breast, liver and placenta.,

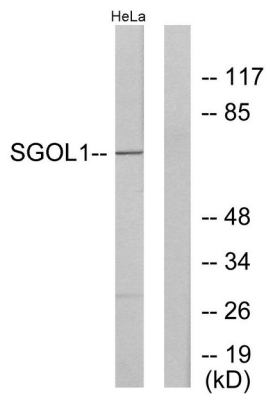
研究领域 (Research Area)

Oocyte meiosis;

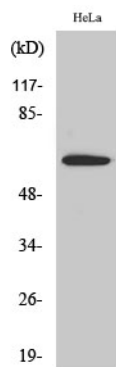
注意事项 (Note)

For research use only.

图片 (Image Data)



Western blot analysis of lysates from HeLa cells, using SGOL1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Sgo1 Polyclonal Antibody.

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产品类别	产品货号	产品名称
WB 解决方案	RA10020	2h 极速 WB 即用型全流程试剂盒
	RA10021	4h 快速 WB 即用型全流程试剂盒
	RA10042	5h 畅享版 WB 全流程试剂盒
	RA10037	校准级彩色预染蛋白 Marker (8-180kDa)
	RA10038	校准级彩色预染蛋白 Marker (10-250kDa)
	RA10039	校准级高分子彩色预染蛋白 Marker (25-400kDa)
TSA 多重荧光染色试剂盒	RA10008	TSA 双标三色多重荧光染色试剂盒 (mIHC)
	RA10009	TSA 三标四色多重荧光染色试剂盒 (mIHC)
	RA10010	TSA 四标五色多重荧光染色试剂盒 (mIHC)
	RA10011	TSA 五标六色多重荧光染色试剂盒 (mIHC)
	RA10012	TSA 六标七色多重荧光染色试剂盒 (mIHC)
IHC 检测试剂盒	RA10006	HRP Anti-Mouse/Rabbit IHC Detection System
	RA10007	Polymer-HRP Anti-Mouse/Rabbit IHC Detection System
抗体标记试剂盒	RE80004p	辣根过氧化物酶(HRP)抗体标记试剂盒
	RE80002q	Sulfo-NHS-生物素标记试剂盒
	RE80007p	Cy3 荧光素标记试剂盒
	RE80011p	Fluor488 荧光素标记试剂盒
	RE80017p	Fluor750 荧光素标记试剂盒
	RE80005p	藻红蛋白(R-PE) 抗体快速标记试剂盒
	RE80040	PE-Cy7 串联染料抗体快速标记试剂盒
稳转细胞系构建服务 (免费赠送全膜 WB 验证)	TS-0001	过表达稳转细胞系构建
	TS-0002	敲低稳转细胞系构建
	TS-0003	敲除细胞系构建

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