Datasheet for ABIN7270288

anti-Shugoshin antibody (AA 10-100)

2 Images

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Overview

Quantity:	100 µL
Target:	Shugoshin (SGOL1)
Binding Specificity:	AA 10-100
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Shugoshin antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Purpose:	SGOL1 Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 10-100 of human SGOL1 (NP_612493.1).
Sequence:	SFQDSLEDIK KRMKEKRNKN LAEIGKRRSF IAAPCQIITN TSTLLKNYQD NNKMLVLALE NEKSKVKEAQ DIILQLRKEC YYLTCQLYAL K
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Shugoshin (SGOL1)
Alternative Name:	SGOL1 (SGOL1 Products)
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). Fibroblast cells from CAID patients exhibited both increased cell proliferation and higher rates of senescence. Pseudogenes of this gene have been found on chromosomes 1 and 7. Alternative splicing results in multiple transcript variants.,SGO1,CAID,NY-BR-85,SGO,SGOL1,Epigenetics & Nuclear Signaling,Cell Biology & Developmental Biology,Cell Cycle,Centromere,SGOL1
Molecular Weight:	24kDa/29kDa/31kDa/33kDa/35kDa/60kDa/64kDa
Gene ID:	151648
UniProt:	Q5FBB7
Pathways:	Maintenance of Protein Location

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

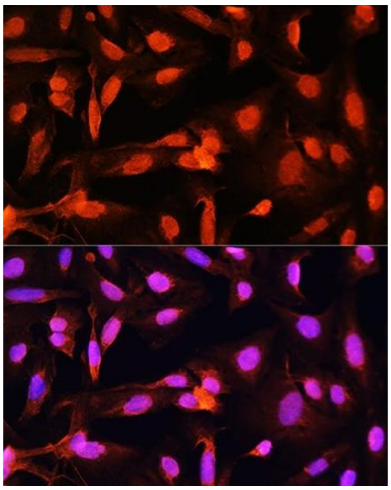
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

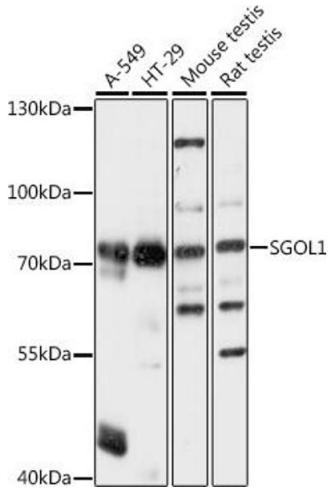
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Immunofluorescence

Image 1. Immunofluorescence analysis of U20S cells using SGOL1 antibody (ABIN7270288) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using SGOL1 antibody (ABIN7270288) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 3s.