SGOL1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	SGOL1, Blocking Peptide
Full Product Name	SGOL1 Blocking Peptide
Product Gene Name	SGOL1 blocking peptide
Product Synonym Gene Name	SGO1
Product Synonym Names	hSgo 1; hSgo1; NY BR 85; Serologically defined breast cancer antigen NY BR 85; Serologically defined breast cancer antigen NY-BR-85; SGO 1; SGO; SGO L1; SGO1; SGOL 1; SGOL1; SGOL1_HUMAN; Shugoshin 1AB protein; Shugoshin 1CD protein; Shugoshin 1EFprotein; Shugoshin 1GH protein; Shugoshin 1KL protein; Shugoshin like 1 (S. pombe); Shugoshin like 1; Shugoshin-like 1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	SGOL1 peptide (MBS9623495) is used for blocking the activity of SGOL1 antibody (MBS9604778)
Molecular Weight	64,190 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (20202085..20227724, complement). Location: 3p24.3
OMIM	609168
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for SGOL1 blocking peptide	Blocking/Control
Related Product Information for SGOL1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of SGOL1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SGOL1 purchase	MBS9623495 is a blocking peptide targeting SGOL1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SGOL1. It may not necessarily be applicable to this product.

NCBI GI #	60302875
NCBI GeneID	151648

NCBI Accession #	NP_001012409.1
UniProt Primary Accession #	Q5FBB7
UniProt Secondary Accession #	Q588H5; Q5FBB4; Q5FBB5; Q5FBB6; Q5FBB8; Q8N579; Q8WVL0; Q9BVA8; Q9H275
UniProt Related Accession #	Q5FBB7
GenBank Nucleotide #	NM_001012409.3
NCBI Official Full Name	shugoshin-like 1 isoform A1
NCBI Official Synonym Full Names	shugoshin-like 1 (S. pombe)
NCBI Official Symbol	SGOL1
NCBI Official Synonym Symbols	SGO; Sgo1; NY-BR-85
UniProt Protein Name	Shugoshin-like 1
UniProt Synonym Protein Names	Serologically defined breast cancer antigen NY-BR-85
UniProt Gene Name	SGOL1
UniProt Synonym Gene Names	SGO1; hSgo1
UniProt Entry Name	SGOL1_HUMAN
NCBI Protein Information	shugoshin-like 1; hSgo1; shugoshin 1AB protein; shugoshin 1CD protein; shugoshin 1EF protein; shugoshin 1GH protein; shugoshin 1KL protein; serologically defined breast cancer antigen NY-BR-85
NCBI Summary for SGOL1	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. [provided by RefSeq, Mar 2015]
UniProt Comments for SGOL1	SGO1: 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. Essential for proper chromosome segregation during mitosis and this function requires interaction with PPP2R1A. Its phosphorylated form is necessary for chromosome congression and for the proper attachment of spindle microtubule to the kinetochore. Necessary for kinetochore localization of PLK1 and CENPF. May play a role in the tension sensing mechanism of the spindle-assembly checkpoint by regulating PLK1 kinetochore affinity. Isoform 3 plays a role in maintaining centriole cohesion involved in controlling spindle pole integrity. Belongs to the shugoshin family. 7 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation Chromosomal Location of Human Ortholog: 3p24.3 Cellular Component: kinetochore; nucleoplasm; spindle pole; centrosome; cytoplasm; cytosol; condensed nuclear chromosome, pericentric region; chromosome, pericentric region Molecular Function: protein binding; kinase binding Biological Process: mitosis; cell division; mitotic cell cycle; attachment of spindle microtubules to kinetochore; centriole-centriole cohesion; meiotic chromosome segregation; chromosome segregation Disease: Chronic Atrial And Intestinal Dysrhythmia

Research Articles on SGOL1	**1.** Lentivirus-mediated siRNA interference targeting SGO-1 inhibits human NSCLC cell growth
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