



# Human SGOL1 peptide (DAG-P1164)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	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.
<b>Specificity</b>	Widely expressed. Highly expressed in testis. Expressed in lung, small intestine, breast, liver and placenta. Strongly overexpressed in 90% of breast cancers tested.
<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Belongs to the shugoshin family.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">SGOL1 shugoshin-like 1 (S. pombe) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	SGOL1

<b>Synonyms</b>	SGOL1; shugoshin-like 1 (S. pombe); SGO; Sgo1; NY-BR-85; 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;
<b>Entrez Gene ID</b>	<a href="#">151648</a>
<b>mRNA Refseq</b>	<a href="#">NM_001012409.2</a>
<b>Protein Refseq</b>	<a href="#">NP_001012409.1</a>
<b>UniProt ID</b>	B5BUA4
<b>Chromosome Location</b>	3p24.3
<b>Pathway</b>	Aurora B signaling, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; M Phase, organism-specific biosystem; Mitotic Anaphase, organism-specific biosystem; Mitotic Metaphase and Anaphase, organism-specific biosystem; Mitotic Prometaphase, organism-specific biosystem; Oocyte meiosis, organism-specific biosystem; Oocyte meiosis, conserved biosystem; PLK1 signaling events, organism-specific biosystem; Resolution of Sister Chromati
<b>Function</b>	kinase binding; protein binding;