

## Product datasheet for **TP508287**

### Sgo1 (NM\_028232) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse shugoshin 1 (Sgo1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR208287 representing NM_028232 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAKERQCQKRSFQDTLEDIKNRMKEKRNKNLAGIGKRKSFIVAPGQVPTNTATLLRYYQDNNRLLVLALEN  
EKSKVREAQDVILQLRKECYLTCQLYALKEKLTSRQSEETTQNWKGRPSDVSSIDNTRDLSGKSLQQ  
IAVEETDCPYQTTEPSPAVTPETQGCDFFDSGKVESTDEVLPRITISIRRHRLKDFSNISHSTTLEDCKASP  
RVAQSLEVKGSRCREVTVTLHRLLENVCLWNKDQISLCSRLINPAKITETEVILSSKPEQIESKHKRARKR  
RAEQRRTKQRCKSKSSLRSKGNKNDKQGLPPTLDGGIGSCDAYDFNLKGTVHPTPFRQKMNNGCNKET  
DSSNSEVSDLECSTSEDESDDLPPSKRLRDYRESERAVTRPRSKRGLQYPDGKERKEVLPSTAPTGIP  
PETQESPRCSLKDVNTILQCPRVKIRKPSLPPKRREDSPAVALTKRRCSTIKSYKEPTLASKLRRGDPFT  
DLCFLNSPIFKQKRGMRCPKRRTKQTQ

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	59 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_082508</a></u>



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Locus ID: 72415

UniProt ID: [Q9CXH7](#)

RefSeq Size: 3609

Cytogenetics: 17 C

RefSeq ORF: 1551

Synonyms: 3300001M08Rik; C81037; Sgo1; Sgol1

**Summary:** 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. Involved in centromeric enrichment of AUKRB in prometaphase.[UniProtKB/Swiss-Prot Function]