

Recombinant Mouse Sgo1 Protein, Myc/DDK-tagged

Cat. No. Sgo1-5827M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length shugoshin 1 (Sgo1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	59 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Sgo1 shugoshin 1 [*Mus musculus* (house mouse)]

Official Symbol Sgo1

Synonyms Sgo1; shugoshin 1; Sg; Sgol1; C81037; 3300001M08Rik; shugoshin 1; shugoshin 1A protein; shugoshin-like 1

Gene ID 72415

mRNA Refseq NM_028232

Protein Refseq NP_082508

UniProt ID Q9CXH7

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