

## Recombinant Mouse Spag5 Protein, Myc/DDK-tagged

Cat. No. Spag5-6070M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length sperm associated antigen 5 (Spag5), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	Essential component of the mitotic spindle required for normal chromosome segregation and progression into anaphase. Required for chromosome alignment, normal timing of sister chromatid segregation, and maintenance of spindle pole architecture. In complex with SKAP, promotes stable microtubule-kinetochore attachments. May contribute to the regulation of separase activity. May regulate AURKA localization to mitotic spindle, but not to centrosomes and CCNB1 localization to both mitotic spindle and centrosomes. Involved in centriole duplication. Required for CDK5RAP22, CEP152, WDR62 and CEP63 centrosomal localization and promotes the centrosomal localization of CDK2. In non-mitotic cells, upon stress induction, inhibits mammalian target of rapamycin complex 1 (mTORC1) association and recruits the mTORC1 component RPTOR to stress granules (SGs), thereby preventing mTORC1 hyperactivation-induced apoptosis. May enhance GSK3B-mediated phosphorylation of other substrates, such as MAPT/TAU.
<b>Molecular Mass</b>	130.4 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining

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<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	Spag5 sperm associated antigen 5 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Spag5
<b>Synonyms</b>	SPAG5; sperm associated antigen 5; sperm-associated antigen 5; astrin; microtubule-associated protein; mitotic spindle-associated protein p126; S17; MAP126; Deepest; Mastrin; A1874642; D11Bhm180e
<b>Gene ID</b>	54141
<b>mRNA Refseq</b>	NM_017407
<b>Protein Refseq</b>	NP_059103
<b>UniProt ID</b>	Q7TME2

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