

Product datasheet for **TP525545**

Sept2 (NM_001159718) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse septin 2 (Sept2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA	>MR225545 representing NM_001159718
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MVVGESGLGKSTLINSFLTDLYPERIIPGAAEKIERTVQIEASTVEIEERGVLRLTVVDTPGYGDAIN
CRDCFKTIISYIDEQFERYLHDESGLNRRHIIDNRVHCCFYFISPFHGHLKPLDVAFMKAIHNKV/NIVPV
IAKADTLTKERERLKKRILDEIEEHSIKIYHLPDAESDEDEDFKEQTRLLKASIPFSVVGSNQLIEAKG
KKVRGRLYPWGVVEVENPEHNDFLKLRMLITHMQDLQEVTQDLHYENFRSERLKRGRKVENEDMNKDQ
ILLEKEAELRRMQEMIARMQAQMOMQMGGSDSDSGALGQHV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	37.4 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:	NP_001153190
Locus ID:	18000
UniProt ID:	P42208 , E9Q3V6



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RefSeq Size: 3192

Cytogenetics: 1 D

RefSeq ORF: 963

Synonyms: AW208991; mKIAA0158; Nedd-5; Nedd5

Summary: Filament-forming cytoskeletal GTPase. Forms a filamentous structure with SEPTIN12, SEPTIN6, SEPTIN2 and probably SEPTIN4 at the sperm annulus which is required for the structural integrity and motility of the sperm tail during postmeiotic differentiation (By similarity). Required for normal organization of the actin cytoskeleton. Plays a role in the biogenesis of polarized columnar-shaped epithelium by maintaining polyglutamylated microtubules, thus facilitating efficient vesicle transport, and by impeding MAP4 binding to tubulin. Required for the progression through mitosis. Forms a scaffold at the midplane of the mitotic spindle required to maintain CENPE localization at kinetochores and consequently chromosome congression. During anaphase, may be required for chromosome segregation and spindle elongation. Plays a role in ciliogenesis and collective cell movements (By similarity). In cilia, required for the integrity of the diffusion barrier at the base of the primary cilium that prevents diffusion of transmembrane proteins between the cilia and plasma membranes: probably acts by regulating the assembly of the tectonic-like complex (also named B9 complex) by localizing TMEM231 protein.[UniProtKB/Swiss-Prot Function]