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Product datasheet for TP511734

Spag5 (NM_017407) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse sperm associated antigen 5 (Spag5), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211734 representing NM_017407 Red=Cloning site Green=Tags(s) MWRVKTLNLGLSPSPQKGKPAMSTPLRELKLQPEALADSGKGPSMISALTPYLCRLELKERCNNSSPVDF INTENNFLSEQFSHPSTHIEACQRESDPTPESNSLFHTLEEAIETVDDFVVDPRRDDSIVESMVLLPFSLG QQQDLMLQAHLDTTAERTKSSLNESLGLEDLVGKEVAPCVEDSLTEIVAIRPEQPTFQDPPLGPSDTEDA PVDLVPSENVLNFSLARLSPSAVLAQDFSVDHVDPGEETVENRVLQEMETSFPTFPEEAELGDQAPAANA EAVSPLYLTSSLVEMGPREAPGPTVEDASRIPGLESETWMSPLAWLEKGVNTSVMLQNLRQSLSFSSVLQ DAAVGNTPLATCSVGTSFTPPAPLEVGTKDSTSETERLLLGCRPPDLATLSRHDLEENLLNSLVLLEVLS HQLQAWKSQLTVPHREARDSSTQTDSSPCGVTKTPKHLQDSKEIRQALLQARNVMQSWGLVSGDLLSLLH LSLTHVQEGRVTVSQESQRSKTLVSSCSRVLKKLKAKLQSLKTECEEARHSKEMALKGKAAAEAVLEAFR AHASQRISQLEQGLTSMQEFRGLLQEAQTQLIGLHTEQKELAQQTVSLSSALQQDWTSVQLNYGIWAALL SWSRELTKKLTAKSRQALQERDAAIEEKKQVVKEVEQVSAHLEDCKGQIEQLKLENSRLTADLSAQLQIL TSTESQLKEVRSQHSRCVQDLAVKDELLCQLTQSNKEQATQWQKEEMELKHIQAELLQQQAVLAKEVQDL RETVEFIDEESQVAHRELGQIESQLKVTLELLRERSLQCETLRDTVDSLRAELASTEAKHEKQALEKTHQ HSQELRLLAEQLQSLTLFLQAKLKENKAESEIILPSTGSAPAQEHPLSNDSSISEQTPTAAVDEVPEPAP VPLLGSVKSAFTRVASMASFQPTETPDLEKSLAEMSTVLQELKSLCSLLQESKEEATGVLQREICELHSR LQAQEEEHQEALKAKEADMEKLNQALCLLRKNEKELLEVIQKQNEKILGQIDKSGQLINLREEVTQLTQS LRRAETETKVLQEALEGQLDPSCQLMATNWIQEKVFLSQEVSKLRVMFLEMKTEKEQLMDKYLSHRHILE ENLRRSDTELKKLDDTIQHVYETLLSIPETMKSCKELQGLLEFLS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	130.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining

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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_059103
Locus ID:	54141
UniProt ID:	Q7TME2
RefSeq Size:	3822
Cytogenetics:	11 46.74 cM
RefSeq ORF:	3495
Synonyms:	AI874642; D11Bhm180e; Deepest; MAP126; Mastrin; S17
Summary:	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 (By similarity).[UniProtKB/Swiss-Prot Function]