

Product datasheet for TP510424

Tpx2 (NM_001141978) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse TPX2, microtubule-associated (Tpx2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR210424 protein sequence Red=Cloning site Green=Tags(s)

MSQVPTTYSFDAPTDFFINFSLLDAEEDTENIDSWFDEKANLENKFLRQRGIGEPFQGKNSLRKAKLQQGF
VTPLKAVDNTYHKETEKENLQKQSIPSNDCSSLDAKRAVSGNTPVQPQRRSIRLSAQKDLEQKEKNHVAS
VEMKAKRCVAPATDCPPQKRMKVSDDKKLEEEEGSAPATSRKNERETLEKAKGKHTVPGVPPAREKVLK
STEEQEIEKRLRMQQEVVELRRKNEEFKLLALAGPGQPVKKSTSQVTKTVDHFHFLTDERIKQHPKNQEEY
KEVNFMSSELRKHSSTPARGTRGCTIIKPFNLSKGKKRTFDEAASTYVPIAQQVEAFHKRTPNRYHLRNKK
DESLPSKSVNKIARDPQTPIQLTKYRTRAVTCKSTAEQEAEELEKLQYKFKARELDRIFESGPILPK
RAPVKPPTQPVGFDLEIEKRIHERESKKKTEDEQFEFHSRPCPTKILEDVWGVPEKKVIPATVPKSPVFA
LKNRIRVPIKDEEEKPVVIAQPVPHYGVYPKPHIAEARNVEVCPFSFDTRDKERQLQKEKKIKEMQKG
EVPKFKALPVPHFDTINLPEKKVKNVTAEPFSLTDKRGAYKAEMWKHQLEEEQKQQKDAACFKARPNT
VIFQEPFVPKKEKSLAENPSGSLVQEPFQLATERRAKERQELEKKMAEVEAWKLQLEEVRRQEEEEQQK
EELARLRKELVHKANPIRKYAAVEVKSELPLTVPSPKFSTRFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	85.9 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.



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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_001135450
Locus ID:	72119
UniProt ID:	A2APB8 , Q8BTJ3
RefSeq Size:	4164
Cytogenetics:	2 H1
RefSeq ORF:	2238
Synonyms:	2610005B21Rik; DIL2; p100; REPP86
Summary:	Spindle assembly factor required for normal assembly of mitotic spindles. Required for normal assembly of microtubules during apoptosis. Required for chromatin and/or kinetochore dependent microtubule nucleation. Mediates AURKA localization to spindle microtubules. Activates AURKA by promoting its autophosphorylation at 'Thr-288' and protects this residue against dephosphorylation. TPX2 is inactivated upon binding to importin-alpha. At the onset of mitosis, GOLGA2 interacts with importin-alpha, liberating TPX2 from importin-alpha, allowing TPX2 to activate AURKA kinase and stimulates local microtubule nucleation. [UniProtKB/Swiss-Prot Function]