

Recombinant Human TPX2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TPX2-1921H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TPX2 MS Standard C13 and N15-labeled recombinant protein (NP_036244) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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 activates AURKA kinase and stimulates local microtubule nucleation.
Molecular Mass	85.7 kDa
AA Sequence	MSQVKSSYSYDAPSDFINFSSLDDDEGDTQNIDSWFEEKANLENKLLGKNGTGGLFQ GKTPLRKANLQQAIVTPLKPDNTYYKEAKENLVEQSIPSNACSSLEVEAAISRKTP AQPQRRSLRLSAQKDLEQKEKHHVKMKAKRCATPVIIDEILPSKKMKVSNNKKKPEE EGSAHQDTAEKNASSPEKAKGRHTVPCMPPAKQKFLKSTEEQELEKSMKMQQEVV EMRKKNEEFKKLALAGIGQPVKKSVSQVTKSVDFHFRTDERIKQHPKNQEEYKEVN

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FTSELRKHPSSPARVTKGCTIVKPFNLSQGKKRTFDETVSTYVPLAQQVEDFHKRTP
 NRYHLRSKKDDINLLPSKSSVTKICRDPQTPVLQTKHRARAVTCKSTAELEAEELEKL
 QQYKFKARELDPRILEGGPILPKKPPVKPPTTEPIGFDLEIEKRIQERESKKKTEDEHFE
 FHSRPCPTKILEDVVGVPPEKKVLPITVPKSPAFALKNRIRMPTKEDEEEDEPVVIAQ
 PVPHYGVFPFKPQIPEARTVEICPFSFDSRDKERQLQKEKKIKELQKGEVPKFKALPLP
 HFDTINLPEKKVKNVQTIEPFCLETDRRGALKAQTWKHQLEELRQQKEAACFKARP
 NTVISQEPFVPKKEKKSVAEGLSGSLVQEPFQLATEKRAKERQELEKRMAEVEAQK
 AQQLEEARLQEEEQKKEELARLRRELVHKANPIRKYQGLEIKSSDQPLTPVSPKFS
 TRFHCTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name TPX2 TPX2 microtubule nucleation factor [Homo sapiens (human)]

Official Symbol TPX2

Synonyms TPX2; TPX2, microtubule-associated, homolog (Xenopus laevis); C20orf1, C20orf2, chromosome 20 open reading frame 1; targeting protein for Xklp2; DIL 2; p100; protein fls353; differentially expressed in lung cells; TPX2, microtubule-associated protein homolog; preferentially expressed in colorectal cancer; hepatocellular

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carcinoma-associated antigen 519; restricted expression proliferation associated protein 100; restricted expression proliferation-associated protein 100; differentially expressed in cancerous and non-cancerous lung cells 2; DIL2; DIL-2; HCTP4; FLS353; HCA519; REPP86; C20orf1; C20orf2; GD:C20orf1;

Gene ID [22974](#)

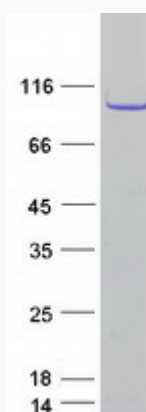
mRNA Refseq [NM_012112](#)

Protein Refseq [NP_036244](#)

MIM [605917](#)

UniProt ID [Q9ULW0](#)

SDS-PAGE



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