

Active Recombinant Full Length Human TPX2 Protein, C-Flag-tagged

Cat. No. TPX2-222HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TPX2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	TPX2 activity in a microtubule binding assay: SAF-A binds to MT in a TPX2-dependent manner. MT binding analysis of isolated SAF-A protein in the presence of different amounts of recombinant TPX2 protein. The lower panel shows western blotting with anti-SAF-A antibody. SAF-A co-pelleted with MT was increased, dependent on the amount of TPX2.

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Molecular Mass	85.5 kDa
AA Sequence	MSQVKSSYSYDAPSDFINFSSLDDEGDTQNIDSWFEEKANLENKLLGKNGTGGLFQ GKTPLRKANLQQAI VTPLKPVDNTYYKEAEKENLVEQSIPSNACSSLEVEAAISRKTP AQPQRRSLRLSAQKDLEQKEKHHVKM KAKRCATPVIIDEILPSKKMKVSNKKKKPEE EGSAHQDTAEKNASSPEKAKGRHTVPCMPPAKQKFLKST EEQELEKSMKMQQEV VEMRKKNEEFKKLALAGIGQPVKKSVSQVTKSVDFHFRTDERIKQHPKNQEEYKE V NFTSELRKHPSSPARVTKGCTIVKPFNLSQGKKRTFDETVSTYVPLAQQVEDFHKRT PNRYHLRSKKDD INLLPSKSSVTKICRDPQTPVLQTKHRARAVTCKSTAELEAELEE KLQYQYKFKARELDPRILEGGPILPK KPPVKPPTPIGFDLEIEKRIQERESKKKTEDEH FEFHSRPCPTKILEDVVGVPKVKLPITVPKSPAFA LKNRIRMPTKEDEEEDEPVIK AQPVPHYGVFPKQIPEARTVEICPFSFDSRDKERQLQKEKKIKELQK GEVPKFKAL PLPHFDTINLPEKKVKNVTQIEPFCLETDRRGALKAQTWKHQLEEEELRQQKEAACFK ARPN TVISQEPFVPKKEKKSVAEGLSGSLVQEPFQLATEKRAKERQELEKRMAEVE AQKAQQLEEARLQEEEQK KEELARLRRELVHKANPIRKYQGLEIKSSDQPLTPVPSPKFSTRFHCTRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families Druggable Genome, Stem cell - Pluripotency

Full Length Full L.

GENE INFORMATION

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

Official Symbol TPX2

Synonyms DIL2; p100; DIL-2; HCTP4; FLS353; HCA519; REPP86; C20orf1; C20orf2; GD:C20orf1

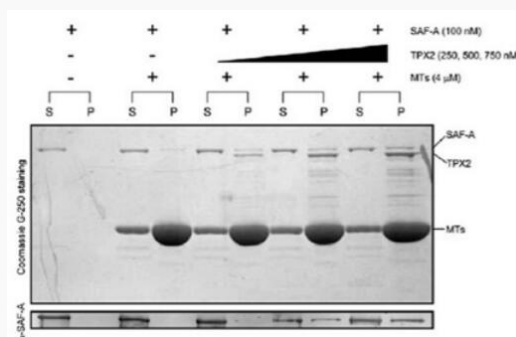
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Protein Refseq NP_036244.2

MIM 605917

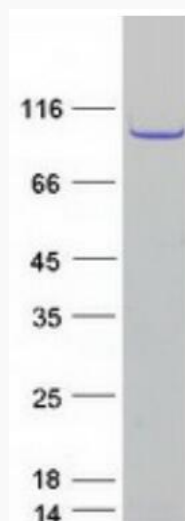
UniProt ID Q9ULW0



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Coomassie blue staining of purified TPX2 protein.

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