

Recombinant Mouse Tpx2 Protein, Myc/DDK-tagged

Cat. No. Tpx2-6615M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length TPX2, microtubule-associated (Tpx2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
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	85.9 kDa
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 after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Tpx2 TPX2, microtubule-associated [*Mus musculus* (house mouse)]

Official Symbol Tpx2

Synonyms TPX2; TPX2, microtubule-associated protein homolog (*Xenopus laevis*); targeting protein for Xklp2; DIL2; p100; REPP86; 2610005B21Rik

Gene ID 72119

mRNA Refseq NM_001141978

Protein Refseq NP_001135450

UniProt ID A2APB8

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