

Recombinant Human TPX2, His-tagged

Cat. No. TPX2-7044H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human TPX2 protein was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag. This product can be used for Aurora A activation in vitro.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	TPX2 is a nuclear proliferation-associated protein whose expression is restricted to cell cycle phases S, G2, and M. It mainly expressed in the lung carcinoma cell lines and also found in adult placenta, skeletal muscle, thymus, testis, and small intestine and in fetal brain, liver, and kidney. TPX2 is required for targeting STK6 to the spindle apparatus, and that STK6 may regulate the function of TPX2 during spindle assembly. TPX2 is mainly function in mitotic spindle assembly likely contributes to its role in chromosome stability control and tumor suppression.
Form	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~110 kDa
Purity	>80%

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Applications	Kinase assay, Western Blot
Storage	Store at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.2 $\mu\text{g}/\mu\text{l}$
GENE INFORMATION	
Gene Name	TPX2 TPX2, microtubule-associated, homolog (<i>Xenopus laevis</i>) [<i>Homo sapiens</i>]
Official Symbol	TPX2
Synonyms	TPX2; TPX2, microtubule-associated, homolog (<i>Xenopus laevis</i>); 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 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

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Chromosome Location	20q11.2
Pathway	Aurora A signaling, organism-specific biosystem; PLK1 signaling events, organism-specific biosystem;
Function	ATP binding; GTP binding; protein binding; protein kinase binding;

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