

## Recombinant human TPX2 protein

### Summary:

Cat: AC84274

[Name] : TPX2

[Derived From] : E.coli

[Uniprot] : Q9ULW0

[Mol Mass] : 40kDa

[Gene ID] : 22974

[Amino Acid] : 1-350aa

[Full Name] : TPX2, microtubule-associated, homolog (Xenopus laevis)

[Tag] : With a 6 x His tag at the N/C-terminus.

[Species Reactivity] : Human Mouse (Bovine Orangutan)

[Application] : Immunology research

[Purification] : NI-NTA affinity purification

[Purity] :  $\geq 85\%$  by SDS-PAGE.

[Concentration] : 1mg/ml by SDS-PAGE.

[Endotoxin] : Not measured

[Bioactive] : NO

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**Store:**

[Storage] : Reconstituted protein solution can be stored at 4-7°C for 1-2 weeks, stored at < -20°C for 1 year.

[Formulation] : Powder: Lyophilized from a 0.2 µm filtered solution of 2-8M Urea, 20mM Tris-HCl, 150mM NaCl, 1mM DTT, PH7.2-8.0.

[Reconstitution] : Reconstituted protein solution can be diluted with distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. (It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water.)

**Background:**

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, GOL GA2 interacts with importin-alpha, liberating TPX2 from importin-alpha, allowing TPX2 to activates AURKA kinase and stimulates local microtubule nucleation.

