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Datasheet for ABIN7561941  
**TPX2 Protein (AA 1-745) (His tag)**

## Overview

Quantity:	1 mg
Target:	TPX2
Protein Characteristics:	AA 1-745
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TPX2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Tpx2 Protein expressed in mammalien cells.
Sequence:	MSQVPTTYSF DAPTDIFNFS SLDAEEDTEN IDSWFDEKAN LENKFLRQRG IGEPFQGKNS LRKAKLQQGF VTPLKAVDNT YHKETEKENL QKQSIPSNDC SSLDAKRAVS GNTPVQPQRR SIRLSAQKDL EQKEKNHVAS VEMKAKRCVA PATDCPPQKR MKVSHKKKLE EEEEGSAPAT SRKNERETLE KAKGKHTVPG VPPAREKVLK STEEQEIEKR LRMQQEVVEL RRKNEEFKKL ALAGPGQPVK KSTSQVTKTV DFHFLTDERI KQHPKNQEEY KEVNFMSSELR KHSSTPARGT RGCTIIPKFN LSKGKKRTFD EAASTYVPIA QQVEAFHKRT PNRYHLRNKK DESLLPSKSV NKIARDPQTP ILQTKYRTRA VTCKSTAEQE AEELEKLQY KFKARELDPR IFESGPILPK RAPVKPPTQP VGFDLEIEKR IHERESKKKT EDEQFEFHSR PCPTKILEDV VGVPEKKVIP ATVPKSPVFA LKNRIRVPIK DEEEEKPVVI KAQVPVHYGV PYKPHIAEAR NVEVCPFSFD TRDKERQLQK EKKIKEMQKG EVPKFKALPV PHFDTINLPE KKVKNVTQAE PFSLETDKRG AYKAEMWKHQ LEEEQKQKD AACFKARPNT VIFQEPFVPK KEKKSLEAENP SGSLVQEPFQ

## Product Details

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LATERRAKER QELEKKMAEV EAWKLQQL EE VRQEEEEQK EELARLRKEL VHKANPIRKY  
AAVEVKSSSEL PLTVPVSPKF STRFQ **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

TPX2

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### Alternative Name:

Tpx2 ([TPX2 Products](#))

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### Background:

Targeting protein for Xklp2,FUNCTION: 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 activate AURKA kinase and stimulates local microtubule nucleation. {ECO:0000250|UniProtKB:Q9ULW0, ECO:0000269|PubMed:18663142}.

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### Molecular Weight:

85.9 kDa

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## Target Details

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UniProt: [A2APB8](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months