

Datasheet for ABIN7555824
TPX2 Protein (AA 1-747) (His tag)



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Overview

Quantity:	1 mg
Target:	TPX2
Protein Characteristics:	AA 1-747
Origin:	Human
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:	MSQVKSSYSY DAPSDFINFS SLDDEGDTQN IDSWFEEKAN LENKLLGKNG TGGLFQGKTP LRKANLQQAI VTPLKPDNT YYKEAEKENL VEQSIPSNAC SSLEVEAAIS RKTPAQPQRR SLRLSAQKDL EQKEKHHVKM KAKRCATPVI IDEILPSKKM KVSNNKKKPE EEGSAHQDTA EKNASSPEKA KGRHTVPCMP PAKQKFLKST EEQELEKSMK MQQEVVEMRK KNEEFKKLAL AGIGQPVKKS VSQVTKSVDF HFRTDERIKQ HPKNQEEYKE VNFTSELRKH PSSPARVTKG CTIVKPFNLS QGKKRTFDET VSTYVPLAQQ VEDFHKRTPN RYHLRSKKDD INLLPSKSSV TKICRDPQTP VLQTKHRARA VTCKSTAELE AEELEKLQY KFKARELDPR ILEGGPILPK KPPVKPPTTEP IGFLEIEKR IQERESKKKT EDEHFEFHSR PCPTKILEDV VGVPEKKVLP ITVPKSPAFA LKNRIRMPTK EDEEEDEPVV IKAQVPVPHYG VPFKQIPEA RTVEICPFSF DSRDKERQLQ KEKKIKELQK GEVPKFKALP LPHFDTINLP EKKVKNVTQI EPFCLETDRR GALKAQTWKH QLEEELRQQK EAACFKARPV TVISQEPFVP KKEKKSVAEG LSGSLVQEPF

Product Details

QLATEKRAKE RQELEKRMAE VEAQKAQQLE EARLQEEEQK KEELARLRRE LVHKANPIRK
YQGLEIKSSD QPLTVPVSPK FSTRFHC **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.**

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.

Purity:

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

Grade:

custom-made

Target Details

Target:

TPX2

Alternative Name:

TPX2 ([TPX2 Products](#))

Background:

Targeting protein for Xklp2 (Differentially expressed in cancerous and non-cancerous lung cells 2) (DIL-2) (Hepatocellular carcinoma-associated antigen 519) (Hepatocellular carcinoma-associated antigen 90) (Protein fls353) (Restricted expression proliferation-associated protein 100) (p100),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 (PubMed:18663142, PubMed:19208764, PubMed:37728657). Activates AURKA by promoting its autophosphorylation at 'Thr-288' and protects this residue against dephosphorylation (PubMed:18663142, PubMed:19208764). TPX2 is inactivated upon binding

Target Details

to importin-alpha (PubMed:26165940). 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 (PubMed:26165940).

{ECO:0000269|PubMed:18663142, ECO:0000269|PubMed:19208764, ECO:0000269|PubMed:26165940}.

Molecular Weight: 85.7 kDa

UniProt: [Q9ULW0](#)

Application Details

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

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