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# Datasheet for ABIN3130793 TPX2 Protein (AA 1-745) (His tag)

Image



#### Overview

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

### Product Details

Sequence:	MSQVPTTYSF DAPTDFINFS 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 KEVNFMSELR KHSSTPARGT
	RGCTIIKPFN LSKGKKRTFD EAASTYVPIA QQVEAFHKRT PNRYHLRNKK DESLLPSKSV
	NKIARDPQTP ILQTKYRTRA VTCKSTAEQE AEELEKLQQY KFKARELDPR IFESGPILPK
	RAPVKPPTQP VGFDLEIEKR IHERESKKKT EDEQFEFHSR PCPTKILEDV VGVPEKKVIP
	ATVPKSPVFA LKNRIRVPIK DEEEEKPVVI KAQPVPHYGV PYKPHIAEAR NVEVCPFSFD
	TRDKERQLQK EKKIKEMQKG EVPKFKALPV PHFDTINLPE KKVKNVTQAE PFSLETDKRG
	AYKAEMWKHQ LEEEQKQQKD AACFKARPNT VIFQEPFVPK KEKKSLAENP SGSLVQEPFQ
	LATERRAKER QELEKKMAEV EAWKLQQLEE VRQQEEEQQK EELARLRKEL VHKANPIRKY

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	AAVEVKSSEL PLTVPVSPKF STRFQ
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Tpx2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.

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### Product Details

#### Grade:

Crystallography grade

## Target Details

rget:	TPX2
ernative Name:	Tpx2 (TPX2 Products)
ckground:	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.
	{ECO:0000250 UniProtKB:Q9ULW0, ECO:0000269 PubMed:18663142}.
lecular Weight:	86.8 kDa Including tag.
Prot:	A2APB8
plication 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 gurantee
	though.
mment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
strictions:	For Research Use only
andling	
mat:	Liquid
ffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
ndling Advice:	Avoid repeated freeze-thaw cycles.
prage:	-80 °C
rmat: ffer: ndling Advice:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manu Avoid repeated freeze-thaw cycles.

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 Storage Comment:
 Store at -80°C.

 Expiry Date:
 Unlimited (if stored properly)

Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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