

Product datasheet

Recombinant Human TPX2 protein ab119735

1 Image

Overview

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<b>Product name</b>	Recombinant Human TPX2 protein
<b>Protein length</b>	Full length protein

Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Baculovirus infected Sf9 cells

Amino Acid Sequence

<b>Accession</b>	<a href="#">Q9ULW0</a>
<b>Species</b>	Human
<b>Molecular weight</b>	110 kDa including tags
<b>Amino acids</b>	1 to 747
<b>Tags</b>	His tag N-Terminus

Specifications

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Our [Abpromise guarantee](#) covers the use of **ab119735** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot SDS-PAGE
<b>Purity</b>	> 80 % SDS-PAGE. The purity was determined to be 80% by densitometry.
<b>Form</b>	Liquid

Preparation and Storage

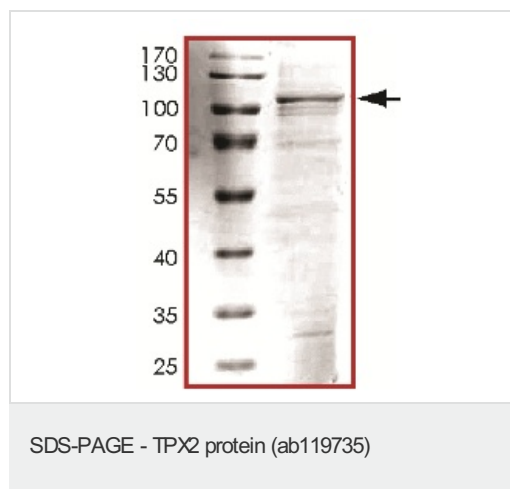
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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.00 Preservative: 1.02% Imidazole Constituents: 0.7% Sodium phosphate, 1.75% Sodium chloride, 0.002% PMSF, 0.003% DTT, 25% Glycerol
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## General Info

<b>Function</b>	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.
<b>Tissue specificity</b>	Expressed in lung carcinoma cell lines but not in normal lung tissues.
<b>Sequence similarities</b>	Belongs to the TPX2 family.
<b>Developmental stage</b>	Exclusively expressed in proliferating cells from the transition G1/S until the end of cytokinesis.
<b>Post-translational modifications</b>	Phosphorylated upon DNA damage, probably by ATM or ATR.
<b>Cellular localization</b>	Nucleus. Cytoplasm > cytoskeleton > spindle. Cytoplasm > cytoskeleton > spindle pole. During mitosis it is strictly associated with the spindle pole and with the mitotic spindle, whereas during S and G2, it is diffusely distributed throughout the nucleus. Is released from the nucleus in apoptotic cells and is detected on apoptotic microtubules.

## Images



The purity was determined to be >80% by densitometry.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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