

Product datasheet

Recombinant Human TPX2 protein ab119735

1 Image

Overview

Product name	Recombinant Human TPX2 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Baculovirus infected Sf9 cells

Amino Acid Sequence

Accession	Q9ULW0
Species	Human
Molecular weight	110 kDa including tags
Amino acids	1 to 747
Tags	His tag N-Terminus

Specifications

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.

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

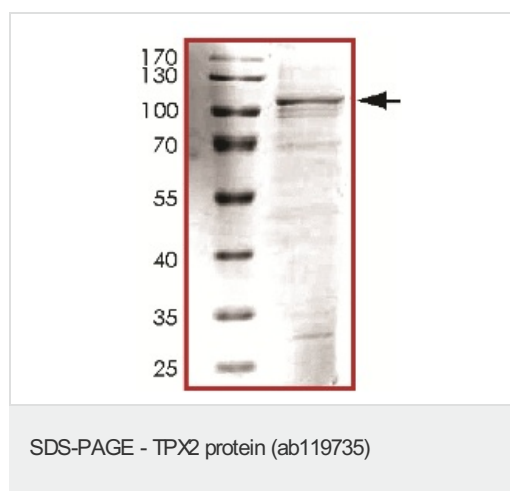
Preparation and Storage

Stability and Storage	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

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.
Tissue specificity	Expressed in lung carcinoma cell lines but not in normal lung tissues.
Sequence similarities	Belongs to the TPX2 family.
Developmental stage	Exclusively expressed in proliferating cells from the transition G1/S until the end of cytokinesis.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	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.

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