

TPX2 Antibody (clone 18D5)
Mouse Monoclonal Antibody
Catalog # ALS12008**Specification**

TPX2 Antibody (clone 18D5) - Product Information

Application	IHC, WB
Primary Accession	O9ULW0
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	86kDa KDa

TPX2 Antibody (clone 18D5) - Additional Information**Gene ID** 22974**Other Names**

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, TPX2, C20orf1, C20orf2, DIL2, HCA519

Target/Specificity

Amino Acid: 1-220 of human TPX2

Reconstitution & Storage

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

TPX2 Antibody (clone 18D5) is for research use only and not for use in diagnostic or therapeutic procedures.

TPX2 Antibody (clone 18D5) - Protein Information**Name** TPX2**Synonyms** C20orf1, C20orf2, DIL2, HCA519**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)

target="_blank">18663142, PubMed:19208764). TPX2 is inactivated upon binding 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).

Cellular Location

Nucleus. Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, spindle pole. Note=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.

Tissue Location

Expressed in lung carcinoma cell lines but not in normal lung tissues

Volume

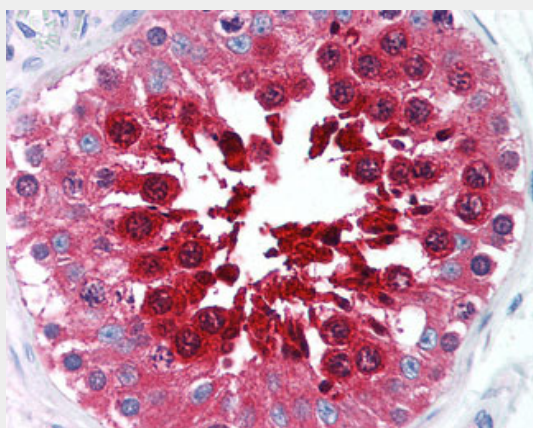
50 µl

TPX2 Antibody (clone 18D5) - Protocols

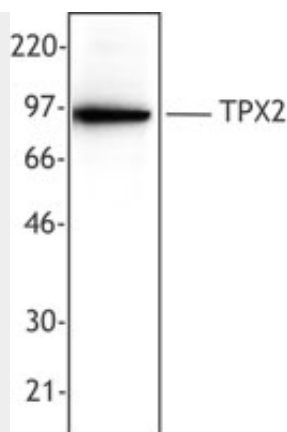
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TPX2 Antibody (clone 18D5) - Images



Anti-TPX2 antibody IHC of human testis.



MOLT-4 nuclear extracts were resolved by electrophoresis, transferred to nitrocellulose and...

TPX2 Antibody (clone 18D5) - Background

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 Antibody (clone 18D5) - References

Manda R., et al. Genomics 61:5-14(1999).
Zhang Y., et al. Cytogenet. Cell Genet. 84:182-183(1999).
Nezu J., et al. Submitted (MAR-1999) to the EMBL/GenBank/DDBJ databases.
Wang Y., et al. J. Immunol. 169:1102-1109(2002).
Deloukas P., et al. Nature 414:865-871(2001).