

TPX2 Rabbit mAb
Catalog # AP76745**Specification**

TPX2 Rabbit mAb - Product Information

Application	WB, IF
Primary Accession	O9ULW0
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	85653

TPX2 Rabbit mAb - Additional Information**Gene ID** 22974**Other Names**

TPX2

Dilution

WB~~1/500-1/1000

IF~~1/50-1/200

Format

Liquid

TPX2 Rabbit mAb - 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](http://www.uniprot.org/citations/18663142), PubMed: [19208764](http://www.uniprot.org/citations/19208764), PubMed: [37728657](http://www.uniprot.org/citations/37728657)). Activates AURKA by promoting its autophosphorylation at 'Thr-288' and protects this residue against dephosphorylation (PubMed: [18663142](http://www.uniprot.org/citations/18663142), PubMed: [19208764](http://www.uniprot.org/citations/19208764)). TPX2 is inactivated upon binding to importin-alpha (PubMed: [26165940](http://www.uniprot.org/citations/26165940)). At the onset of mitosis, GOLGA2 interacts with importin-alpha, liberating TPX2 from importin-alpha, allowing TPX2 to activate AURKA kinase and stimulate local microtubule nucleation (PubMed: [26165940](http://www.uniprot.org/citations/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

TPX2 Rabbit mAb - 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 Rabbit mAb - Images

