

**TPX2 Rabbit mAb**  
Catalog # AP76746**Specification**

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**TPX2 Rabbit mAb - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">O9ULW0</a>
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

IHC~~1/50-1/100

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:<a href="http://www.uniprot.org/citations/18663142" target="\_blank">18663142</a>, PubMed:<a href="http://www.uniprot.org/citations/19208764" target="\_blank">19208764</a>, PubMed:<a href="http://www.uniprot.org/citations/37728657" target="\_blank">37728657</a>). Activates AURKA by promoting its autophosphorylation at 'Thr-288' and protects this residue against dephosphorylation (PubMed:<a href="http://www.uniprot.org/citations/18663142" target="\_blank">18663142</a>, PubMed:<a href="http://www.uniprot.org/citations/19208764" target="\_blank">19208764</a>). TPX2 is inactivated upon binding to importin-alpha (PubMed:<a href="http://www.uniprot.org/citations/26165940" target="\_blank">26165940</a>). 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:<a href="http://www.uniprot.org/citations/26165940" target="\_blank">26165940</a>).

### 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



