

**TPX2 Polyclonal Antibody**  
Catalog # AP72895**Specification****TPX2 Polyclonal Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">O9ULW0</a>
Reactivity	<b>Human, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>

**TPX2 Polyclonal Antibody - Additional Information****Gene ID** 22974**Other Names**

TPX2; C20orf1; C20orf2; DIL2; HCA519; Targeting protein for Xklp2; Differentially expressed in cancerous and non-cancerous lung cells 2; DIL-2; Hepatocellular carcinoma-associated antigen 519; Protein fls353; Restricted expression proliferera

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**TPX2 Polyclonal Antibody - 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

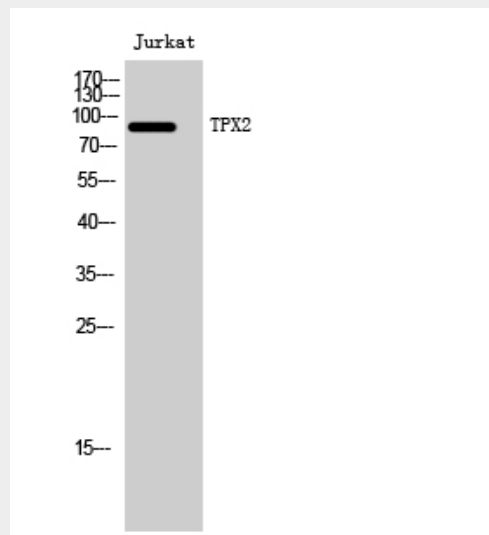
Expressed in lung carcinoma cell lines but not in normal lung tissues

### TPX2 Polyclonal Antibody - 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 Polyclonal Antibody - Images



### TPX2 Polyclonal Antibody - 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 (PubMed:18663142, PubMed:19208764). Activates AURKA by promoting its autophosphorylation at 'Thr-288' and protects this residue against dephosphorylation (PubMed: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 stimulate local microtubule nucleation (PubMed:26165940).