



# TPX2 Polyclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-Ab-16782                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Reactivity</b>                  | Human;Mouse                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Applications</b>                | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>                   | TPX2                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human DIL-2. AA range:301-350                                                                                                                                                                                                                                                                                         |
| <b>Specificity</b>                 | TPX2 Polyclonal Antibody detects endogenous levels of TPX2 protein.                                                                                                                                                                                                                                                                                                                       |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>                      | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purification</b>                | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                     |
| <b>Dilution</b>                    | WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200                                                                                                                                                                                                                                                                                                                      |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>                    | C20orf1;C20orf2;Differentially expressed in cancerous and non-cancerous lung cells 2;DIL 2;DIL2;TPX2;Targeting protein for Xklp2;HCA519;DIL-2;Hepatocellular carcinoma-associated antigen 519;Protein fls353;Restricted expression prolifera                                                                                                                                              |
| <b>Observed Band</b>               | 86kD                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Calculated Molecular Weight</b> | 86kD                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Cell Pathway</b>                | 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. .                               |
| <b>Tissue Specificity</b>          | Expressed in lung carcinoma cell lines but not in normal lung tissues.                                                                                                                                                                                                                                                                                                                    |
| <b>Function</b>                    | developmental stage:Exclusively expressed in proliferating cells from the transition G1/S until the end of cytokinesis.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,subcellular location: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.,tissue |



specificity:Expressed in lung carcinoma cell lines but not in normal lung tissues.,

**Background**

developmental stage:Exclusively expressed in proliferating cells from the transition G1/S until the end of cytokinesis.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,subcellular location: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.,tissue specificity:Expressed in lung carcinoma cell lines but not in normal lung tissues.,

**matters needing attention**

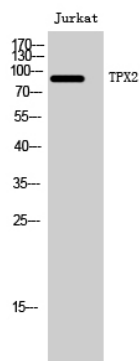
Avoid repeated freezing and thawing!

**Usage suggestions**

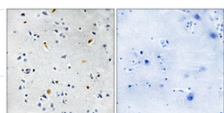
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



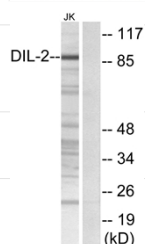
## Products Images



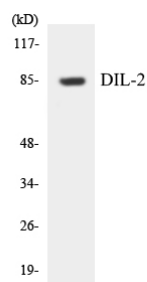
Western Blot analysis of Jurkat cells using TPX2 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



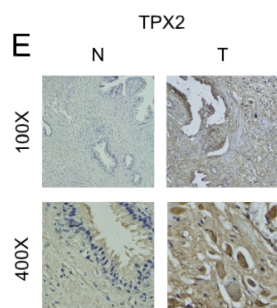
Immunohistochemistry analysis of paraffin-embedded human brain tissue, using DIL-2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat cells, using DIL-2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HUVEC cells using DIL-2 antibody.



A Liquid-Liquid Phase Separation-Related Index Associate with Biochemical Recurrence and Tumor Immune Environment of Prostate Cancer Patients INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Qi You, Jia-Yin Chen, Xiao-Hui Wu, Yu-Ting Xue, Jiang-Bo Sun, Yong Wei, Qing-Shui Zheng, Xue-Yi Xue, Dong-Ning Chen, Ning Xu IHC Human benign prostatic hyperplasia (BPH) tissue prostate cancer (PCa) cell