Anti-TPX2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R011926

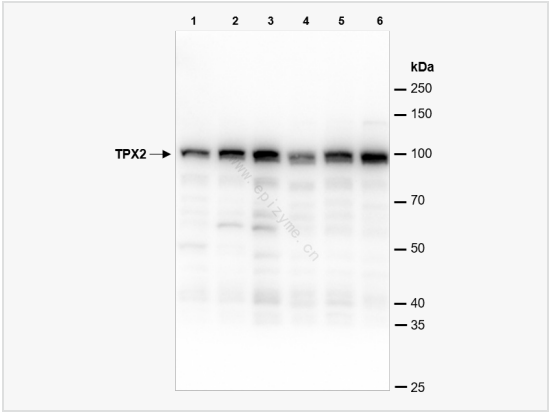
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Rat, Mouse
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	24K08L44
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human TPX2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-TPX2 Rabbit mAb [24K08L44] is for research use only and not for use in diagnostic or therapeutic procedures.

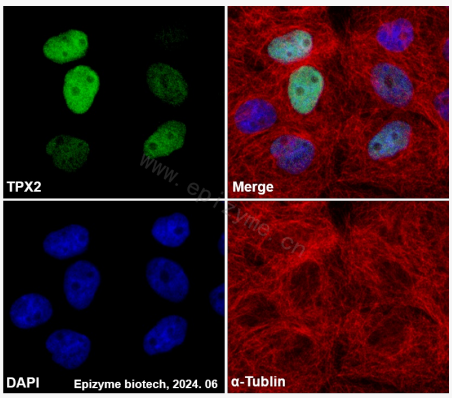
Protein Information

Synonyms	C20ORF1, C20orf2, Chromosome 20 Open Reading Frame 1, Differentially expressed in cancerous and non-cancerous lung cells 2, Differentially expressed in cancerous and noncancerous lung cells 2, Differentially expressed in lung cells 2, Differentially expressed in lung cells, DIL 2, DIL-2, DIL2, FLS353, GD:C20orf1, HCA 519, HCA519, HCTP 4, HCTP4, Hepatocellular carcinoma associated antigen 519, Hepatocellular carcinoma-associated antigen 519, p100, Preferentially expressed in colorectal cancer, Protein fls353, REPP 86, repp86, Restricted expression proliferation associated protein 100, Restricted expression proliferation-associated protein 100, Targeting protein for Xklp2, TPX 2, TPX2, TPX2 microtubule associated homolog, TPX2 microtubule associated protein homolog, TPX2 microtubule nucleation factor, TPX2_HUMAN.
Calculated MW	Calculated MW: 86 kDa; Observed MW: 100 kDa
Uniprot ID	Q9ULW0
Gene ID	22974
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.
Cellular Location	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.

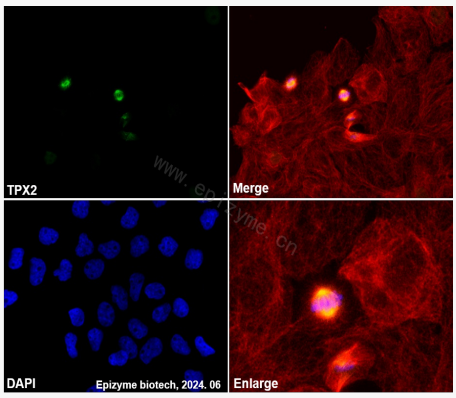
Validation Images



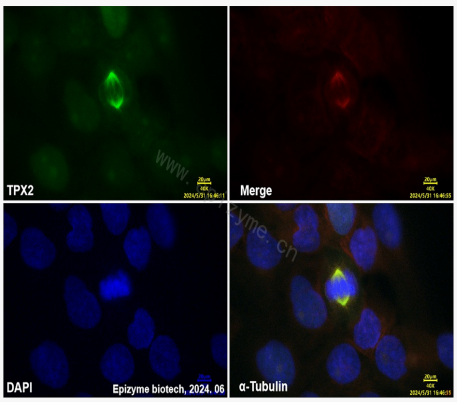
Western Blot - Anti-TPX2 Rabbit mAb [24K08L44]
All lanes: R011926 at 1:1,000 dilution
Lane 1: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysates
Lane 3: Jurkat (human T lymphocytic leukemia cell) whole cell lysates
Lane 4: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 5: T24 (human bladder cancer epithelial cell) whole cell lysates
Lane 6: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 86 kDa
Observed band size: 100 kDa
Developed using the ECL technique (Cat. No. SQ201).



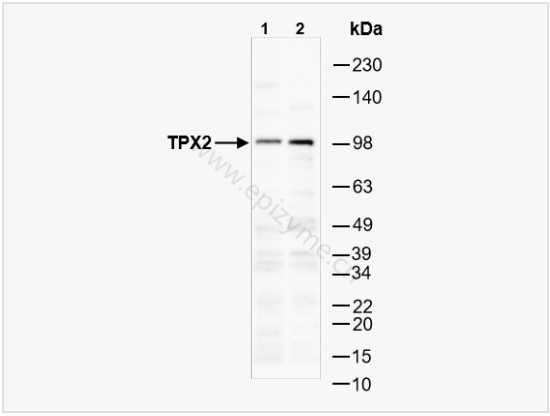
Immunofluorescence - Anti-TPX2 Rabbit mAb [24K08L44]
Sample: A431 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R011926 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Immunofluorescence - Anti-TPX2 Rabbit mAb [24K08L44]
Sample: A431 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R011926 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Immunofluorescence - Anti-TPX2 Rabbit mAb [24K08L44]
Sample: Hela cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R011926 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-TPX2 Rabbit mAb [24K08L44]
All lanes: R011926 at 1:1,000 dilution
Lane 1: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 2: PC-12(Rat adrenal pheochromocytoma epithelial cell)whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 86 kDa
Observed band size: 100 kDa
Developed using the ECL technique (Cat. No. SQ201).