

## Product datasheet for **TA328025**

### TPX2 Mouse Monoclonal Antibody [Clone ID: 18D5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	18D5
Applications:	WB
Recommended Dilution:	WB, IHC, IF
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Amino Acid: 1-220 of human TPX2
Formulation:	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide at 0.5 mg/ml.
Concentration:	lot specific
Purification:	The antibody was purified by affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	100 kD
Gene Name:	TPX2, microtubule nucleation factor
Database Link:	<a href="#">NP_036244</a> <a href="#">Entrez Gene 22974 Human</a> <a href="#">Q9ULW0</a>



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**Background:**

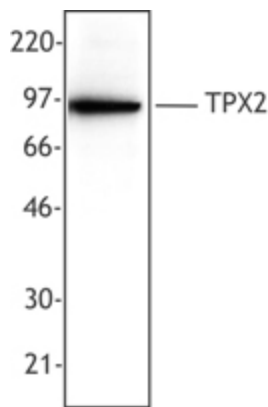
The TPX2 protein, also known as targeting protein for Xklp1, restricted expression proliferation associated protein p100, and differentially expressed in cancer and non-cancerous lung cells protein 2 (DIL2), is a 100 kD nuclear protein that contains two coiled-coil domains. The TPX2 protein is strictly associated with spindle pole and mitotic spindle during mitosis. In the G2/S position of the cell cycle, TPX2 is diffusely distributed throughout nucleus. TPX2 has been shown to be highly expressed in lung carcinomas cell lines, but not in normal lung tissues. TPX2 is thought to be required for the Ran-GTP dependent assembly of microtubules around chromosomes required to generate stable bipolar spindle with overlapping anti-parallel microtubule arrays and may also be involved in targeting Aurora-A kinase to the mitotic spindle. TPX2 has been shown to interact with a large number of proteins including serine/threonine protein kinase 6, ribosomal protein 6, Bop-1,  $\alpha$ -tubulin, and nucleolin among others. TPX2 can be modified by phosphorylation on serine 738. The 18D5 monoclonal antibody recognizes human TPX2 and has been shown to be useful for Western blotting.

**Synonyms:**

C20orf1; C20orf2; DIL-2; DIL2; FLS353; GD:C20orf1; HCA519; HCTP4; p100; REPP86

**Protein Families:**

Druggable Genome, Stem cell - Pluripotency

**Product images:**

MOLT-4 nuclear extracts were resolved by electrophoresis, transferred to nitrocellulose and probed with monoclonal anti-TPX2 (clone 18D5) antibody. Proteins were visualized using a goat anti-mouse secondary conjugated to HRP and a chemiluminescence detection system.