

Datasheet for ABIN5711936

anti-TPX2 antibody

3 Images

[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	TPX2
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Human TPX2
Clone:	TPX2-01
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody TPX2-01 recognizes the epitope EPFVPKKEKKS (aa 636-646 in human) of TPX2, a microtubule-associated intracellular critical regulator of mitosis, which is overexpressed in many types of tumors and is a marker of worse prognosis in various cancers.
Cross-Reactivity (Details):	Human, Mouse, Rat
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	TPX2
---------	------

Target Details

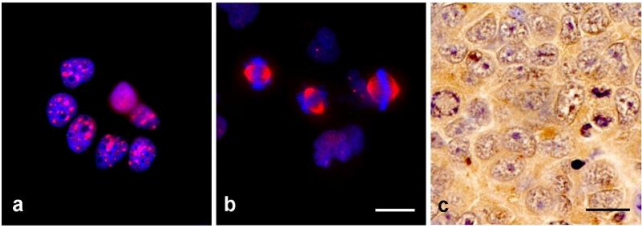
Alternative Name:	TPX2 (TPX2 Products)
Background:	TPX2 microtubule nucleation factor,TPX2 is a microtubule-associated protein, which is a critical regulator of mitosis. At the beginning of mitosis, TPX2 is released and plays a significant role in mitotic spindle formation and subsequent proper segregation of chromosomes during cell division. After completion of mitosis the TPX2 protein disappears, but has also role in DNA damage response. Its overexpression has been demonstrated in many types of carcinomas. TPX2 belongs to the markers of worse tumor prognosis. On the other hand, down-regulation of TPX2 can inhibit cancer cell proliferation, migration and invasion.,DIL2, HCTP4, REPP86
Gene ID:	22974
UniProt:	Q9ULW0

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

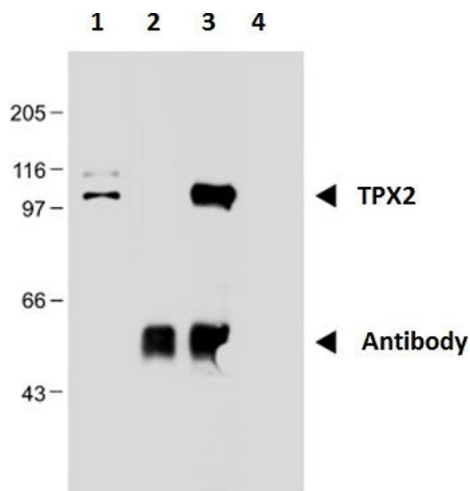
Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.



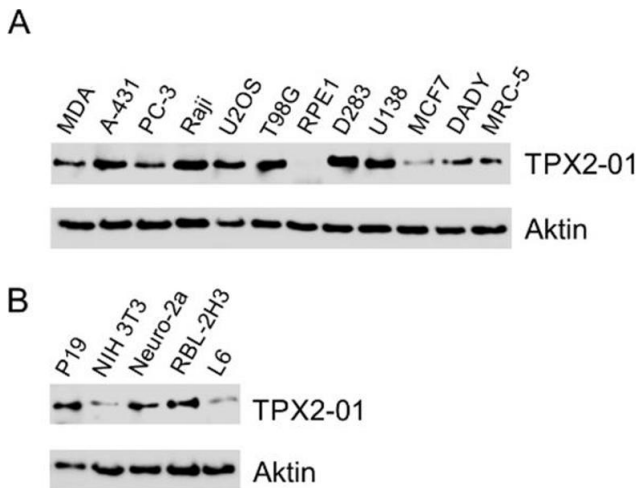
Immunocytochemistry

Image 1. Immunocytochemistry of TPX2 using monoclonal antibody TPX2-01 in glioblastoma cell line T98G: a) interphase, b) mitosis. c) Immunohistochemistry of TPX2 in U87MG human glioblastoma cells (orthotopic xenograft in murine brain). Bar: 20 μ m.



Immunoprecipitation

Image 2. Immunoprecipitation of TPX2 from nuclear extract of HEK293 cells using monoclonal antibody TPX2-01. 1) nuclear extract, 2) antibody, 3) immunoprecipitate, 4) carrier



Western Blotting

Image 3. Western blotting analysis of TPX2 using monoclonal antibody TPX2-01 in A) human cell lines, B) murine (P19, NIH 3T3, Neuro-2a) and rat (RBL-2H3, L6) cell lines.