

For Research Use Only

TPX2 Recombinant antibody

Catalog Number: 85118-6-RR



Basic Information

Catalog Number: 85118-6-RR	GenBank Accession Number: BC020207	Purification Method: Protein A purification
Concentration: 1000 µg/ml	GeneID (NCBI): 22974	CloneNo.: 242528G6
Source: Rabbit	UNIPROT ID: Q9ULW0	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:200-1:800 IF/ICC 1:250-1:1000
Isotype: IgG	Full Name: TPX2, microtubule-associated, homolog (Xenopus laevis)	
Immunogen Catalog Number: AG2334	Calculated MW: 747 aa, 86 kDa Observed MW: 100 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : HeLa cells, HepG2 cells, K-562 cells, SMMC-7721 cells, PANC-1 cells, NIH/3T3 cells IHC : human cervical cancer tissue, IF/ICC : HepG2 cells,
Species Specificity: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

TPX2, also known as DIL2, p10, is a microtubule organization- and cell cycle-associated protein. In the early stage of mitosis, TPX2 is released in a RanGTP-dependent manner and plays a significant role in mitotic spindle formation and subsequent proper segregation of chromosomes during cell division. Furthermore, during interphase, TPX2 is involved in DNA damage response by regulation of γ -H2AX signals (PMID: 25914189). Aberrant expression of TPX2 leads to improper spindle assembly and chromosomal instability. Overexpressed in cancers, TPX2 is being established as the marker for the diagnosis and prognosis of malignancies (PMID: 24556998).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

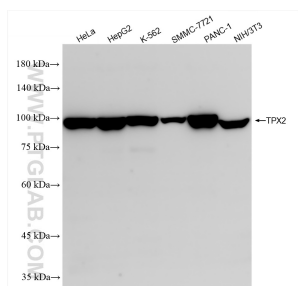
T: 4006900926

E: Proteintech-CN@ptglab.com

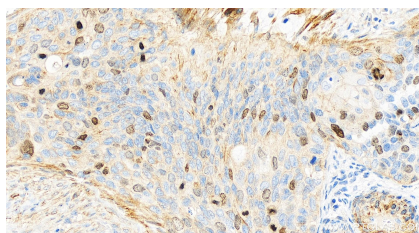
W: ptgcn.com

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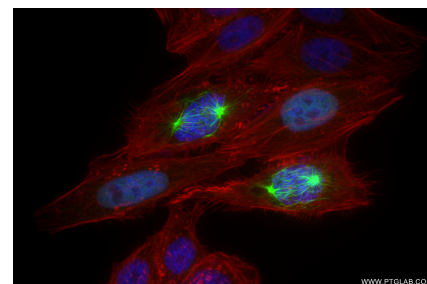
Selected Validation Data



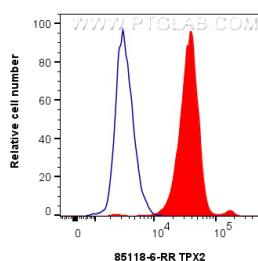
Various lysates were subjected to SDS PAGE followed by western blot with 85118-6-RR (TPX2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



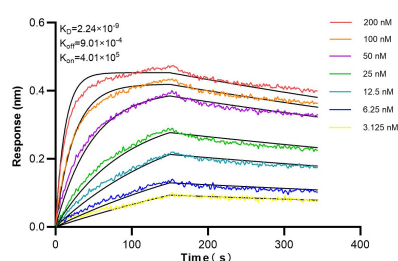
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 85118-6-RR (TPX2 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TPX2 antibody (85118-6-RR, Clone: 242528G6) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug TPX2 Recombinant antibody (85118-6-RR, Clone:242528G6) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 85118-6-RR against Human TPX2 were performed. The affinity constant is 2.24 nM.