

For Research Use Only

TPX2 Polyclonal antibody

Catalog Number: 11741-1-AP

Featured Product

20 Publications



Basic Information

Catalog Number:

11741-1-AP

Concentration:

600 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2334

GenBank Accession Number:

BC020207

GeneID (NCBI):

22974

UNIPROT ID:

Q9ULW0

Full Name:

TPX2, microtubule-associated, homolog (Xenopus laevis)

Calculated MW:

747 aa, 86 kDa

Observed MW:

100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:300-1:1200

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, CoIP, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : HepG2 cells, K-562 cells, HeLa cells, SMMC-7721 cells

IP : HeLa cells,

IHC : human colon cancer tissue, human breast cancer tissue, human prostate cancer tissue

IF/ICC : HepG2 cells, HeLa cells

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Haining Zhou	31521166	BMC Biol	WB,IF
Meng-Wen Hu	26349807	J Cell Sci	WB
Cuijie Shao	27777511	Cancer Cell Int	WB,IHC

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:

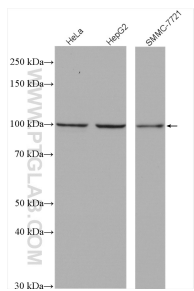
T: 4006900926

E: Proteintech-CN@ptglab.com

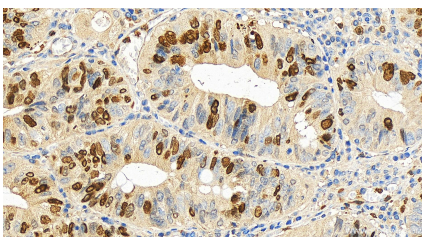
W: ptgcn.com

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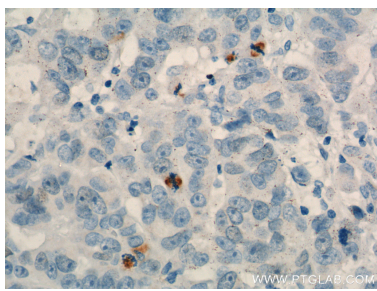
Selected Validation Data



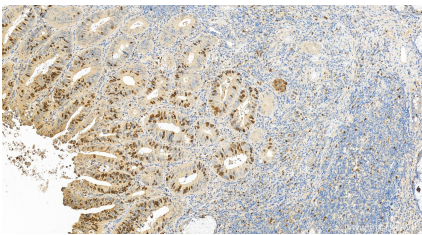
Various lysates were subjected to SDS PAGE followed by western blot with 11741-1-AP (TPX2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



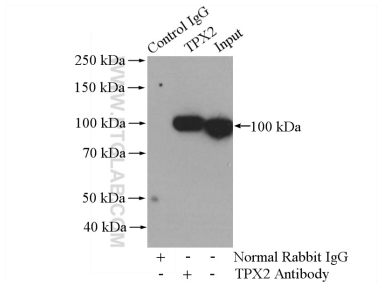
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11741-1-AP (TPX2 antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



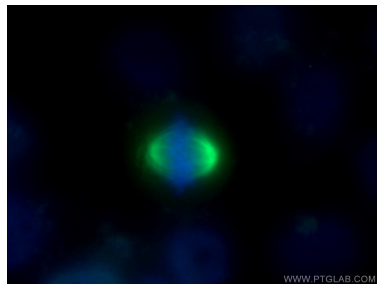
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 11741-1-AP (TPX2 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



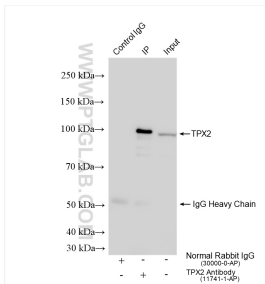
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 11741-1-AP (TPX2 antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



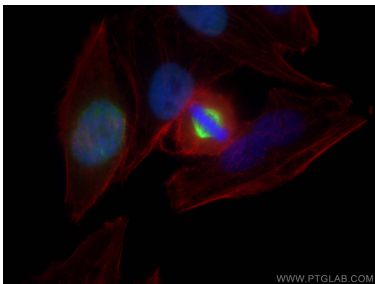
IP result of anti-TPX2 (IP:11741-1-AP, 4ug; Detection:11741-1-AP 1:800) with HeLa cells lysate 880ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 11741-1-AP (TPX2 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-TPX2 (IP:11741-1-AP, 4ug; Detection:11741-1-AP 1:4000) with HeLa cells lysate 1760 ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TPX2 antibody (11741-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).