

Product Datasheet

TPX2 Antibody NB500-179

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NB500-179

TPX2 Antibody

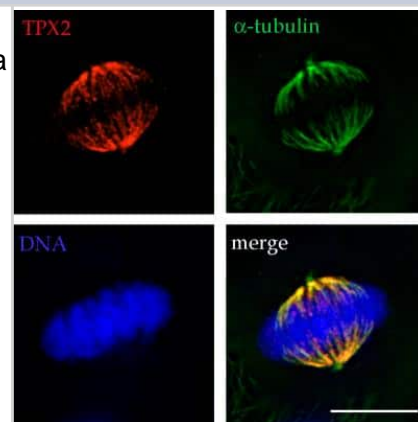
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Target Molecular Weight	100 kDa

Product Description	
Host	Rabbit
Gene Symbol	TPX2
Species	Human, Mouse, Rat, Porcine, Mammal
Immunogen	A recombinant segment of the C-terminal domain of human TPX2 [UniProt# Q9ULW0]

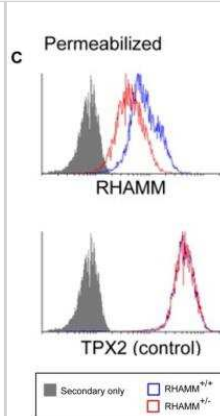
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:1000, Simple Western 1:250, Flow Cytometry reported in scientific literature (PMID 24019927), Immunocytochemistry/Immunofluorescence 1:1000, Immunoprecipitation 1:10-1:100, Knockdown Validated reported in scientific literature (PMID 31586073)
Application Notes	In WB a band at approx. 100 kDa can be detected. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

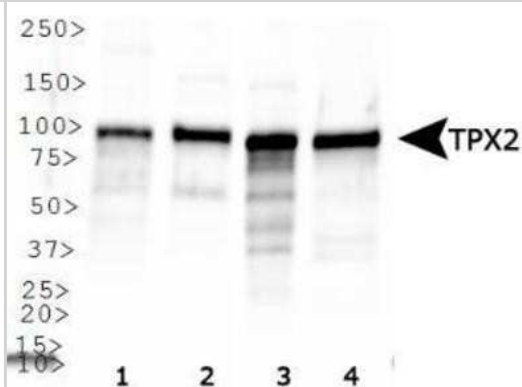
Immunocytochemistry/Immunofluorescence: TPX2 Antibody [NB500-179] - Analysis of TPX2 at the mitotic spindle microtubules and poles in a HeLa metaphase cell. ICC/IF image submitted by a verified customer review.



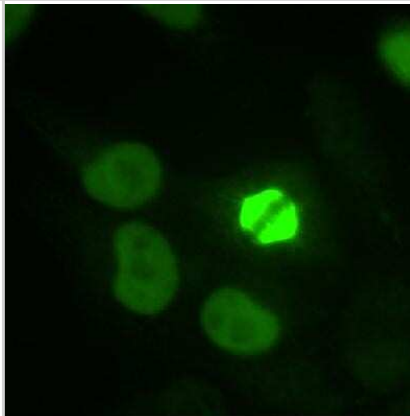
Flow Cytometry: TPX2 Antibody [NB500-179] - RHAMM is not a cell surface but an intracellular cytoskeletal protein in mouse embryonic stem (ES) cells. (C) Alcohol permeabilized mouse ES cells, however, were strongly positive for both RHAMM and the intracellular positive control protein TPX2 (right panel). Image collected and cropped by CiteAb from the following publication ([//dx.plos.org/10.1371/journal.pone.0073548](http://dx.plos.org/10.1371/journal.pone.0073548)) licensed under a CC-BY license.



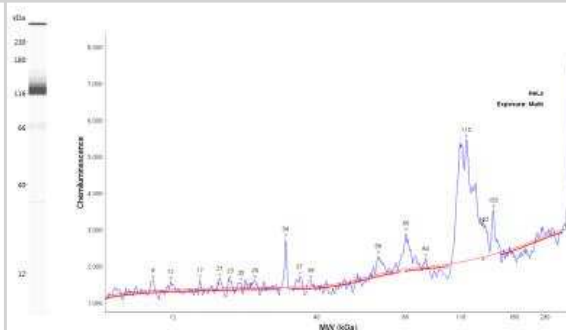
Western Blot: TPX2 Antibody [NB500-179] - Analysis of TPX2 expression in 1) HeLa, 2) Ntera2, 3) K-562 and 4) Raji whole cell lysates using NB500-179.



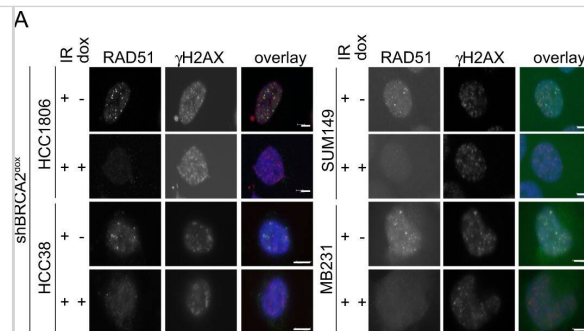
Immunocytochemistry/Immunofluorescence: TPX2 Antibody [NB500-179] - Staining of HeLa cells fixed in 3.5% paraformaldehyde using NB 500-179 (1:1,000). Nuclear staining during interphase and spindle staining during mitosis.



Simple Western: TPX2 Antibody [NB500-179] - Lane view shows a specific band for TPX2 using HeLa cell lysate and antibody at 1:250. Electropherogram image of corresponding Simple Western lane view. Image reported by internal validation.



Immunohistochemical staining of thymidine phosphorylase (TP) expression and related markers in benign lymph node (a) and in lymph node with malignant mycosis fungoides/Sézary syndrome cells (LN-MF) (b–g). (a) In benign lymph node, TP expression highlights the meshwork of macrophages (arrow in inset; 400x) and endothelial cells (arrowhead in inset; 400x). (b) LN-MF: hematoxylin and eosin (H&E) stain. (c) CD3 highlights the malignant T cells and reactive T cells in LN-MF. (d) CD4 is weakly expressed in the malignant T cells in LN-MF. (e) CD68 highlights the macrophages in LN-MF. (f) CD21 is negative in this case of LN-MF. (g) TP highlights the macrophages (cytoplasmic/nuclear pattern, arrowhead in inset 1; 400x) and the malignant T cells (cytoplasmic pattern, arrow in inset 2; 400x) in a cytoplasmic staining pattern. Multiple mitotic figures are also noted in the malignant T cells. Images are from an Olympus BX41 microscope (Olympus Corp., Tokyo, Japan) processed with Qcapture Pro 5.1 (QImaging, Surrey, BC, Canada). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/22162690>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Wu J, Larreategui-Aparicio A, Lambers MLA et al. Microtubule nucleation from the fibrous corona by LIC1-pericentriin promotes chromosome congression *Current Biology* 2023-03-13 [PMID: 36720222]

Oh W, Wu TT, Jeong SY et al. CtIP Regulates Mitotic Spindle Assembly by Modulating the TPX2-Aurora A Signaling Axis *Cells* 2022-09-08 [PMID: 36139389] (WB, IP)

Asteriti IA, Polverino F, Stagni V et al. AurkA nuclear localization is promoted by TPX2 and counteracted by protein degradation *Life science alliance* 2023-05-01 [PMID: 36797043] (WB, ICC/IF, Human)

Details:

Dilution used in ICC/IF 1:1,500 WB 1:1,000

Tang X, Wei W, Snowball JM et al. EMC3 regulates mesenchymal cell survival via control of the mitotic spindle assembly *iScience* 2022-11-01 [PMID: 36624844]

Wang R, Abdelbaki A, Ascanelli C et al. Selective targeting of non-centrosomal AURKA functions through use of a novel targeted protein degradation tool *Commun Biol* 2021-05-29 [PMID: 34050235]

Polverino F, Naso F, Palmerini V et al. The Aurora-A/TPX2 Axis Directs Spindle Orientation by Regulating NuMa and Microtubule Dynamics *Curr Biol* 2020-12-04 [PMID: 33275894]

Li XQ, Wang Y, Yang SJ et al. Melatonin protects against maternal diabetes-associated meiotic defects by maintaining mitochondrial function *Free radical biology & medicine* 2022-08-01 [PMID: 35792241] (FLOW, Mouse)

Jabali A, Hoffrichter A, Uzquiano A et al. Human cerebral organoids reveal progenitor pathology in EML1-linked cortical malformation *EMBO reports* 2022-03-15 [PMID: 35289477] (ICC/IF, Human)

So C, Seres K. B, et al. A liquid-like spindle domain promotes acentrosomal spindle assembly in mammalian oocytes. *Science* 2019-06-28 [PMID: 31249032] (ICC/IF, Sheep, Mouse, Bovine, Porcine)

Zhang YL, Zheng W, Ren P Et al. Biallelic mutations in MOS cause female infertility characterized by human early embryonic arrest and fragmentation *EMBO molecular medicine* 2021-11-15 [PMID: 34779126] (ICC/IF, Mouse)

Sawada JI, Matsuno K, Ogo N, Asai A Various effects of two types of kinesin-5 inhibitors on mitosis and cell proliferation *Biochemical pharmacology* 2021-09-25 [PMID: 34582773] (WB, ICC/IF, Human)

Das R, Sjöström M, Shrestha R Et al. An integrated functional and clinical genomics approach reveals genes driving aggressive metastatic prostate cancer *Nature communications* 2021-07-29 [PMID: 34326322] (WB, Mouse)

More publications at <http://www.novusbio.com/NB500-179>



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB500-179

NBL1-17236	TPX2 Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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