

Product Datasheet

TOP2B Antibody - BSA Free

NBP1-89527

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-89527

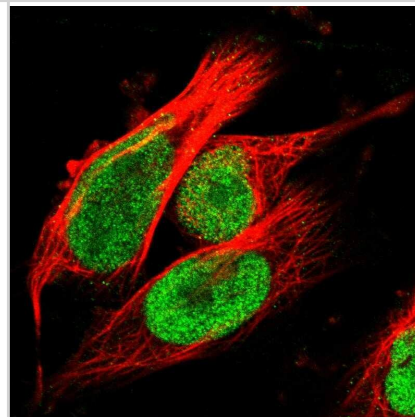
TOP2B Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Product Description	
Description	Novus Biologicals Rabbit TOP2B Antibody - BSA Free (NBP1-89527) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-TOP2B Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	7155
Gene Symbol	TOP2B
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LWKEDLAAFVEELDKVESQEREDVLAGMSGKAIKGVGPKVKKLQLEETMPS PYGRRIIPEITAMKADASKLLKKKKGDLDTAAVKVEFDEEFSGAPVEGAGEEA LTPSVPINKGPKPKREKKEPGTRVRKTPTSSGKPSA
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:100, Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in RT-4, separated by Size, antibody dilution of 1:100, apparent MW was 199 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

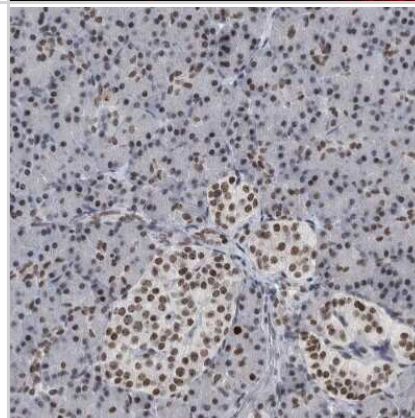


Images

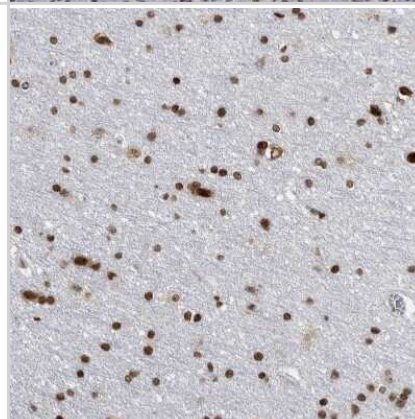
Staining of human cell line U-251 MG shows localization to nucleoplasm.



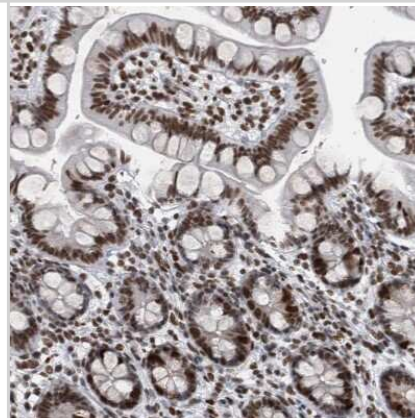
Immunohistochemistry-Paraffin: TOP2B Antibody [NBP1-89527] - Staining of human pancreas shows weak to moderate nuclear positivity in islets of Langerhans and exocrine glandular cells.



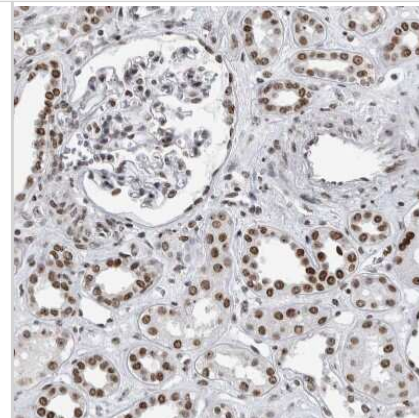
Immunohistochemistry-Paraffin: TOP2B Antibody [NBP1-89527] - Staining of human cerebral cortex shows strong nuclear positivity in neurons.



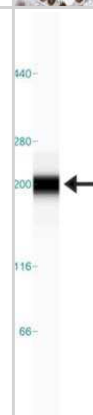
Immunohistochemistry-Paraffin: TOP2B Antibody [NBP1-89527] - Staining of human gastrointestinal shows strong nuclear positivity in glandular cells.



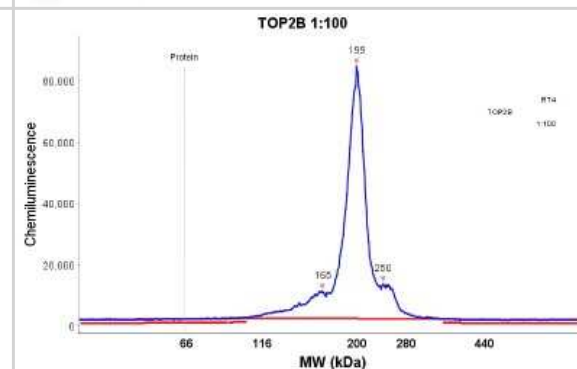
Immunohistochemistry-Paraffin: TOP2B Antibody [NBP1-89527] - Staining of human kidney shows moderate nuclear positivity in cells in glomeruli and tubules.



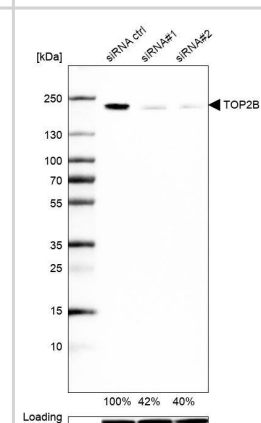
Simple Western: TOP2B Antibody [NBP1-89527] - Simple Western lane view shows a specific band for TOP2B in 0.2 mg/ml of RT-4 lysate. This experiment was performed under reducing conditions using the 66-440 kDa separation system.



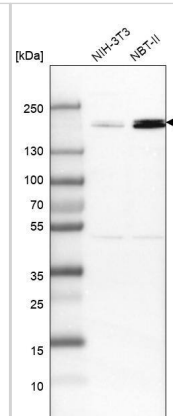
Simple Western: TOP2B Antibody [NBP1-89527] - Electropherogram image(s) of corresponding Simple Western lane view. TOP2B antibody was used at 1:100 dilution on RT-4 lysate(s).



Analysis in U2OS cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-TOP2B antibody. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



Publications

Wang T, Kyle AH, Baker JHE et al. DNA-PK inhibition extends the therapeutic effects of Top2 poisoning to non-proliferating cells, increasing activity at a cost Scientific Reports 2023-08-01 [PMID: 37528151] (Western Blot, Human)

Robert Siddaway, Scott Milos, Étienne Coyaud, Hwa Young Yun, Shahir M. Morcos, Sanja Pajovic, Eric I. Campos, Brian Raught, Cynthia Hawkins The in v ivo Interaction Landscape of Histones H3.1 and H3.3 Molecular & Cellular Proteomics : MCP 2022-09-09 [PMID: 36089195]

Lee S, Jun YW, Linares GR et al. Downregulation of Hsp90 and the antimicrobial peptide Mtk suppresses poly(GR)-induced neurotoxicity in C9ORF72-ALS/FTD Neuron 2023-03-10 [PMID: 36931278] (WB, Drosophila)

Details:

Dilution used in WB 1:2,000

Hu HL, Shiflett LA, Kobayashi M et al. TOP2b-Dependent Nuclear DNA Damage Shapes Extracellular Growth Factor Responses via Dynamic AKT Phosphorylation to Control Virus Latency Mol. Cell 2019-03-26 [PMID: 30930055] (WB, Rat)

Ali A, Biswas A, Pal M. HSF1 mediated TNF-a production during proteotoxic stress response pioneers proinflammatory signal in human cells. FASEB J. 2018-10-11 [PMID: 30307772] (WB, Human)

Aviner R, Shenoy A, Elroy-Stein O, Geiger T. Uncovering Hidden Layers of Cell Cycle Regulation through Integrative Multi-omic Analysis. PLoS Genet 2015-10-01 [PMID: 26439921] (WB, Human)



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Products Related to NBP1-89527

NBP1-89527PEP	TOP2B Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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