

Product Datasheet

TopBP1 Antibody - BSA Free

NB100-217

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB100-217

TopBP1 Antibody - BSA Free

Product Information

Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description

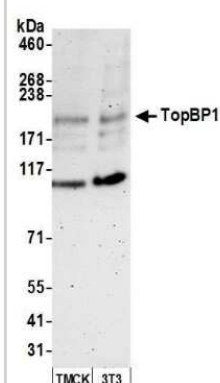
Host	Rabbit
Gene ID	11073
Gene Symbol	TOPBP1
Species	Human, Mouse
Immunogen	The immunogen recognized by this antibody maps to a region between residue 1400 and the C-terminus (residue 1435) of human Topoisomerase (DNA) II Binding Protein 1 using the numbering given in entry NP_008958.1 (GeneID 11073).

Product Application Details

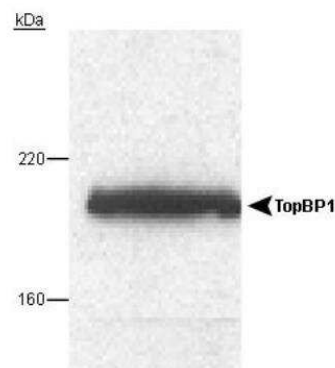
Applications	Western Blot, Immunoprecipitation
Recommended Dilutions	Western Blot, Immunoprecipitation 0.5 to 2.5 ug/mg of lysate

Images

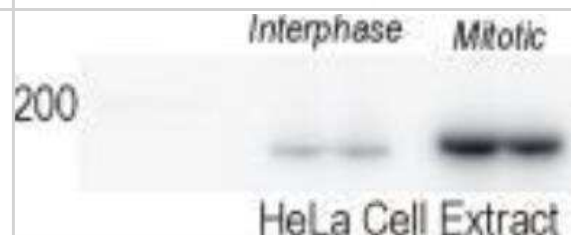
Western Blot: TopBP1 Antibody [NB100-217] - Detection of mouse TopBP1 by western blot. Samples: Whole cell lysate (50 ug) from TCMK-1 and NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-TopBP1 antibody NB100-217 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



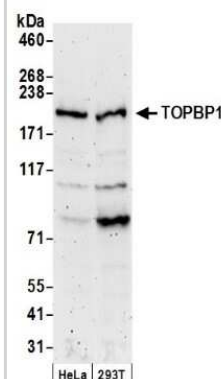
Western Blot: TopBP1 Antibody [NB100-217] - Sample: Whole cell lysate (50 ug for WB) from HeLa cells.



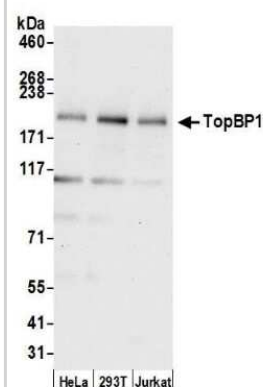
Western Blot: TopBP1 Antibody [NB100-217] - WB analysis of TOPBP1 in HeLa cell extract mitotic and interphase. Image courtesy of product review submitted by Jennifer Flynn.



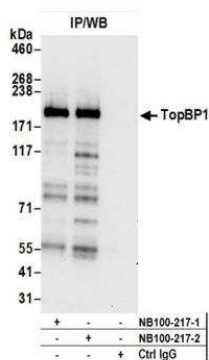
Western Blot: TopBP1 Antibody [NB100-217] - Samples: Whole cell lysate (50 ug) from HeLa and 293T cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-TOPBP1 antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



Western Blot: TopBP1 Antibody [NB100-217] - Detection of human TopBP1 by western blot. Samples: Whole cell lysate (15 ug) from HeLa, HEK293T, and Jurkat cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-TopBP1 antibody NB100-217 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



Immunoprecipitation: TopBP1 Antibody [NB100-217] - Detection of human TopBP1 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-TopBP1 antibody NB100-217 (lot NB100-217-2) used for IP at 3 ug per reaction. TopBP1 was also immunoprecipitated by a previous lot of this antibody (lot A300-111A-1). For blotting immunoprecipitated TopBP1, A300-111A was used at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



Publications

M Bosshard, R Aprigliano, C Gattiker, V Palibrk, E Markkanen, P Hoff Backe, S Pellegrino, FL Raymond, G Froyen, M Altmeyer, M Bjørås, GL Dianov, B van Loon Impaired oxidative stress response characterizes HUWE1-promoted X-linked intellectual disability *Sci Rep*, 2017-11-08;7(1):15050. 2017-11-08 [PMID: 29118367]

Dhoonmoon A, Schleicher EM, Clements KE et al. Genome-wide CRISPR synthetic lethality screen identifies a role for the ADP-ribosyltransferase PARP14 in DNA replication dynamics controlled by ATR *Nucleic Acids Res*. 2020-06-15 [PMID: 32542389] (Human)

Choe KN, Nicolae CM, Constantin D et al. HUWE1 interacts with PCNA to alleviate replication stress. *EMBO Rep*. 2016-05-04 [PMID: 27146073] (WB, Human)

Tomida J, Itaya A, Shigechi T et al. A novel interplay between the Fanconi anemia core complex and ATR-ATRIP kinase during DNA cross-link repair. *Nucleic Acids Res* 2013-05-30 [PMID: 23723247] (WB, Human)

Lee Y, Katyal S, Downing SM et al. Neurogenesis requires TopBP1 to prevent catastrophic replicative DNA damage in early progenitors. *Nat Neurosci* 2012-06-01 [PMID: 22522401]

Kumagai A, Shevchenko A, Shevchenko A et al. Direct regulation of Treslin by cyclin-dependent kinase is essential for the onset of DNA replication. *J Cell Biol* 2011-06-01 [PMID: 21646402]

Forrester NA, Sedgwick GG, Thomas A et al. Serotype-specific inactivation of the cellular DNA damage response during adenovirus infection. *J Virol* 2011-03-01 [PMID: 21159879]

Blackford AN, Patel RN, Forrester NA et al. Adenovirus 12 E4orf6 inhibits ATR activation by promoting TOPBP1 degradation. *Proc Natl Acad Sci U S A* 2010-07-01 [PMID: 20566845]

Guo R, Chen J, Zhu F et al. E2F1 localizes to sites of UV-induced DNA damage to enhance nucleotide excision repair. *J Biol Chem* 2010-06-01 [PMID: 20413589]

Liu Y, Fang Y, Shao H et al. Interactions of human mismatch repair proteins MutSalpha and MutLalpha with proteins of the ATR-Chk1 pathway. *J Biol Chem* 2010-02-01 [PMID: 20029092]

Liu K, Bellam N, Lin HY et al. Regulation of p53 by TopBP1: a potential mechanism for p53 inactivation in cancer. *Mol Cell Biol*. 2009-05-01 [PMID: 19289498]

Details:
WB(human Saos-2 cells), Fig. 3D.

Xu X, Vaithiyalingam S, Glick GG et al. The basic cleft of RPA70N binds multiple checkpoint proteins, including RAD9, to regulate ATR signaling. *Mol Cell Biol* 2008-12-01 [PMID: 18936170]

More publications at <http://www.novusbio.com/NB100-217>



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 NB100-217

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00011073-Q01-10ug	Recombinant Human TopBP1 GST (N-Term) Protein

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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