

Product Datasheet

BP1 Antibody - BSA Free NB100-481

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 7

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-481

Updated 9/9/2025 v.20.1

**Earn rewards for product
reviews and publications.**

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NB100-481



NB100-481

BP1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Target Molecular Weight	36 kDa

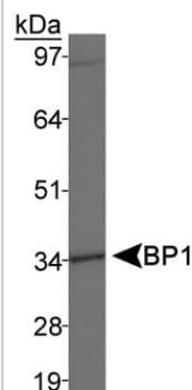
Product Description	
Description	Novus Biologicals Rabbit BP1 Antibody - BSA Free (NB100-481) is a polyclonal antibody validated for use in IHC, WB, IP and ChIP. Anti-BP1 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1748
Gene Symbol	DLX4
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: mouse (82%).
Specificity/Sensitivity	This is specific for human BP1 (DLX4 variant 1). Berg PE, Kirolikar S. DLX4 (distal-less homeobox 4). Atlas Genet Cytogenet Oncol Haematol. January 2011. URL : http://AtlasGeneticsOncology.org/Genes/DLX4ID49827ch17q21.html
Immunogen	A synthetic peptide made specifically to the human BP1 protein sequence (between residues 1-60) [UniProt# Q92988].

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:50-1:100, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:50-1:100, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP)
Application Notes	This BP1 antibody is useful for Immunohistochemistry on paraffin-embedded sections, Immunoprecipitation and Western blot, where a band is seen at ~36 kDa. IP has been done with ³⁵ S-labeled BP1 protein only. It is not known if this antibody will immunoprecipitate a cell extract. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. Use in ChIP reported in scientific literature (PMID:35883028).

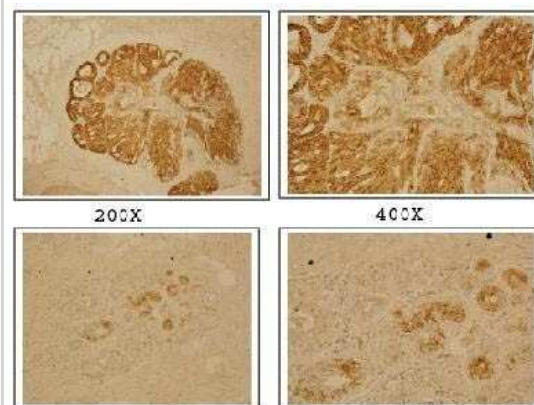


Images

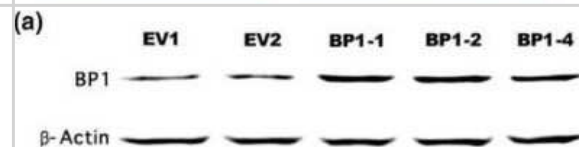
Western Blot: BP1 Antibody [NB100-481] - Detection of MDA-MB-231 cell lysates.



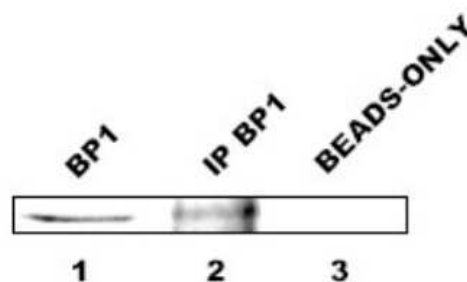
Immunohistochemistry-Frozen: BP1 Antibody [NB100-481] - Top Panel: BP1 antibody detected in breast cancer cells. Bottom Panel: Staining of normal breast tissue.



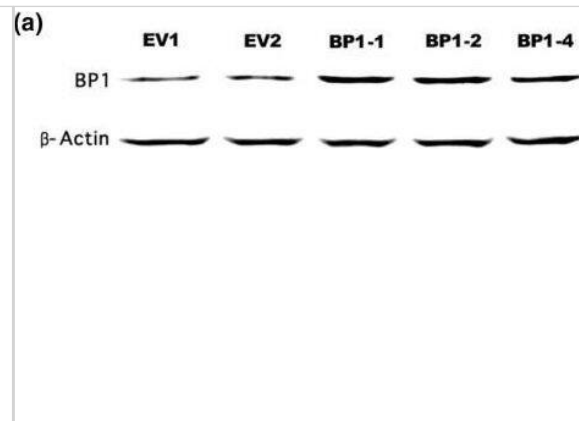
Western Blot: BP1 Antibody [NB100-481] - Effect of BP1 on TNFalpha-induced cell death. Western blot analysis of Beta Protein 1 (BP1) protein expression in MCF7/EV cell lines and MCF7/BP1 cell lines. Image collected and cropped by CiteAb from the following publication (<https://breast-cancer-research.biomedcentral.com/articles/10.1186/bcr1766>), licensed under a CC-BY license.



Immunoprecipitation: BP1 Antibody [NB100-481] - Antibody diluted 1:5,000 2. BP1-specific band after immunoprecipitation of 850 ug of cell extract using anti-BP1 (NB100-481) antibody diluted 1:1,000 3. Negative control for IP in lane 2: cell extract incubated with 50ul of Protein A/G beads.



Effect of BP1 on TNF α -induced cell death. (a) Western blot analysis of Beta Protein 1 (BP1) protein expression in MCF7/EV cell lines and MCF7/BP1 cell lines.



Publications

Zhou JD, Zhao YJ, Leng JY et al. DNA methylation-mediated differential expression of DLX4 isoforms has opposing roles in leukemogenesis Cellular & molecular biology letters 2022-07-26 [PMID: 35883028] (WB, Chemotaxis, Human)

Jeong J, Naab TJ, Fernandez AI et al. Homeoprotein DLX4 expression is increased in inflammatory breast cancer cases from an urban African-American population Oncotarget 2018-07-27 [PMID: 30131852] (IF/IHC, Human)

Kluk BJ, Fu Y, Formolo TA et al. BP1, an isoform of DLX4 homeoprotein, negatively regulates BRCA1 in sporadic breast cancer. Int J Biol Sci 2010-09-10 [PMID: 20877436] (WB, Human)

Fu Y, Lian Y, Kim KS et al. BP1 Homeoprotein Enhances Metastatic Potential in ER-negative Breast Cancer. J Cancer 2010-06-24 [PMID: 20842225] (WB, Human)

Song Y, Dang C, Fu Y W et al. Genome-wide analysis of BP1 transcriptional targets in breast cancer cell line Hs578T. Int J Biol Sci 2009-01-01 [PMID: 19119308] (WB, Human)

Stevenson, HS et al. BP1 transcriptionally activates bcl-2 and inhibits TNF α -induced cell death in MCF7 breast cancer cells. Breast Cancer Res;9(5):R60. 2007-01-01 [PMID: 17854498] (WB, Human)

Yin J, Wei ZJ, Li KB et al. Identification and molecular characterization of a new member of the peritrophic membrane proteins from the meadow moth, *loxostege sticticalis*. Int J Biol Sci;6(5):491-8. 2010-09-06 [PMID: 20827401]



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 NB100-481

NBL1-09919	BP1 Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB100-481

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

