

Product Datasheet

Neurofibromin 1 Antibody - BSA Free NB100-418

Unit Size: 100 ul

Store at 4C. Do not freeze.

www.novusbio.com



technical@novusbio.com

Publications: 3

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-418

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/NB100-418



NB100-418

Neurofibromin 1 Antibody - BSA Free

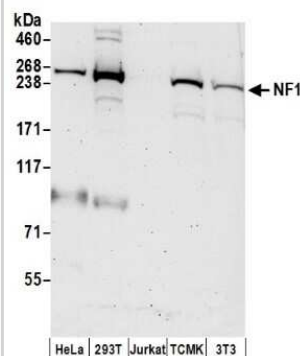
Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description	
Description	Novus Biologicals Rabbit Neurofibromin 1 Antibody - BSA Free (NB100-418) is a polyclonal antibody validated for use in WB, ICC/IF and IP. Anti-Neurofibromin 1 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4763
Gene Symbol	NF1
Species	Human, Mouse, C. elegans
Reactivity Notes	C. elegans reactivity reported in scientific literature (PMID: 30929290).
Immunogen	The immunogen recognized by this antibody maps to a region between residue 2760 and the C-terminus (residue 2818) of human Neurofibromin 1 using the numbering given in entry NP_000258.1 (GeneID 4763)

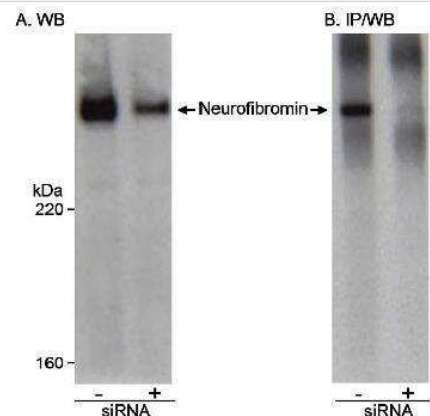
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:1000-1:10000, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 2-10 ug/mg of lysate, Knockdown Validated
Application Notes	Use in ICC/IF reported in scientific literature (PMID: 30929290).

Images

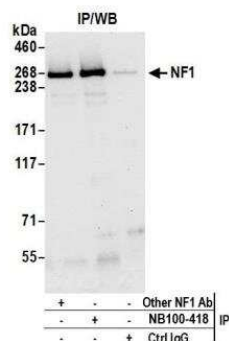
Western Blot: Neurofibromin 1 Antibody [NB100-418] - Samples: Whole cell lysate (50 ug) from HeLa, 293T, Jurkat, mouse TCMK-1, and mouse NIH3T3 cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-NF1 antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 75 seconds.



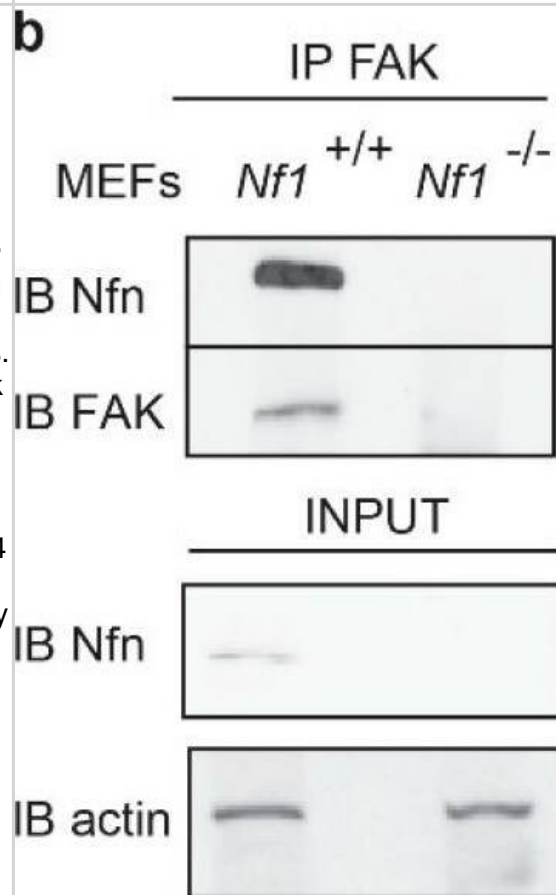
Western Blot: Neurofibromin 1 Antibody [NB100-418] - Detection of human NF1 in Western Blot and IP, using NB100-418. Samples: mock treated (control) or NF1-siRNA treated HeLa WCE. IPed NF was detected using an antibody from another vendor.



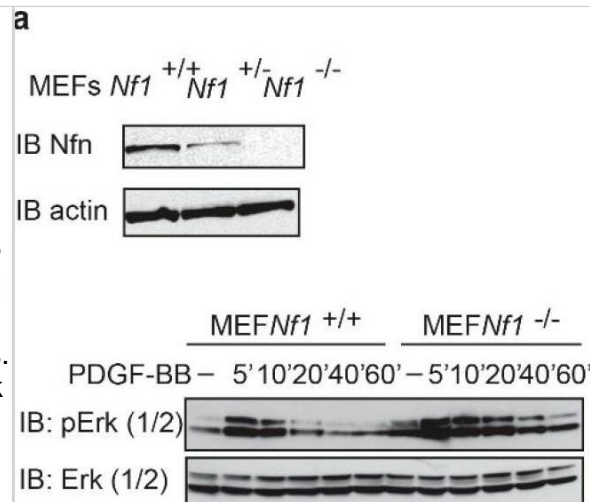
Immunoprecipitation: Neurofibromin 1 Antibody [NB100-418] - Detection of human NF1 by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-NF1 antibody NB100-418 used for IP at 6 ug per reaction. NF1 was also immunoprecipitated by another rabbit anti-NF1 antibody. For blotting immunoprecipitated NF1, NB100-418 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



Neurofibromin loss sensitizes MEF cells to growth factor and matrix stimulation: (a) MEF cells isolated and immortalized from wild-type and knockout mice for *Nf1* gene were analyzed by Western blotting with anti-neurofibromin (Nfn) antibodies; (b) focal adhesion kinase FAK binds to Nfn. FAK was immunoprecipitated (IP) from cell lysates of wild-type and knockout MEFs (*Nf1*^{+/+}, *Nf1*^{-/-}); following SDS-PAGE electrophoresis, co-immunoprecipitated Nfn were assayed by Western blotting analysis (IB) with anti-FAK and anti-Nfn antibodies. Total protein loaded on the IP is also shown as INPUT ((b), lower panel) and examined by anti-Nfn and anti-actin antibodies; (c) transient phosphorylation kinetics of MEFs stimulated with PDGF-BB (10 ng/mL), [38,39] for increasing time periods. Following SDS-PAGE, cell lysates were incubated with anti-phospho-Erk (1/2) (T202/Y204, T185/Y187) MAP kinase, phospho-FAK (Y397) and phospho-Src (Y416) antibodies and anti-GAPDH; (d,e) colony formation assay of MEFs fully embedded by low growth factor containing Matrigel in absence (upper panel) or presence (lower panel) of insoluble matrix proteins Collagen I/Fibronectin. Cells were seeded in the Matrigel and 24 h later treated or not with PDGF-BB ligand for 8 days (representative microscope pictures (10×)). Where indicated, MEF cells were additionally treated with FAK and MEK inhibitors named Y10 (0.62 μM) and Selumetinib (6.62 μM), respectively; the area of colonies was calculated in five fields for each well, and mean value and SD calculated and plotted in the right histograms. n = 8; * p < 0.05 **; p < 0.001 by Student's t-test. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34066061>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Neurofibromin loss sensitizes MEF cells to growth factor and matrix stimulation: (a) MEF cells isolated and immortalized from wild-type and knockout mice for *Nf1* gene were analyzed by Western blotting with anti-neurofibromin (Nfn) antibodies; (b) focal adhesion kinase FAK binds to Nfn. FAK was immunoprecipitated (IP) from cell lysates of wild-type and knockout MEFs (*Nf1*^{+/+}, *Nf1*^{-/-}); following SDS-PAGE electrophoresis, co-immunoprecipitated Nfn were assayed by Western blotting analysis (IB) with anti-FAK and anti-Nfn antibodies. Total protein loaded on the IP is also shown as INPUT ((b), lower panel) and examined by anti-Nfn and anti-actin antibodies; (c) transient phosphorylation kinetics of MEFs stimulated with PDGF-BB (10 ng/mL), [38,39] for increasing time periods. Following SDS-PAGE, cell lysates were incubated with anti-phospho-Erk (1/2) (T202/Y204, T185/Y187) MAP kinase, phospho-FAK (Y397) and phospho-Src (Y416) antibodies and anti-GAPDH; (d,e) colony formation assay of MEFs fully embedded by low growth factor containing Matrigel in absence (upper panel) or presence (lower panel) of insoluble matrix proteins Collagen I/Fibronectin. Cells were seeded in the Matrigel and 24 h later treated or not with PDGF-BB ligand for 8 days (representative microscope pictures (10×)). Where indicated, MEF cells were additionally treated with FAK and MEK inhibitors named Y10 (0.62 μM) and Selumetinib (6.62 μM), respectively; the area of colonies was calculated in five fields for each well, and mean value and SD calculated and plotted in the right histograms. n = 8; * p < 0.05 **; p < 0.001 by Student's t-test. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34066061>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Bergoug M, Mosrin C, Serrano A et Al. An Atypical Mechanism of SUMOylation of Neurofibromin SecPH Domain Provides New Insights into SUMOylation Site Selection J Mol Biol 2024-08-30 [PMID: 39216515]

Errico A, Stocco A, Riccardi V et al. Neurofibromin Deficiency and Extracellular Matrix Cooperate to Increase Transforming Potential through FAK-Dependent Signaling Cancers 2021-05-12 [PMID: 34066061]

Miwa, T;Inoue, K;Sakamoto, H; MRG-1 is required for both chromatin-based transcriptional silencing and genomic integrity of primordial germ cells in *Caenorhabditis elegans* Genes Cells 2019-03-31 [PMID: 30929290] (ICC/IF, C. elegans)



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 NB100-418

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/NB100-418

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

