

Product Datasheet

Nogo Antibody - BSA Free NB100-56681

Unit Size: 0.2 ml

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

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Publications: 26

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NB100-56681

Nogo Antibody - BSA Free

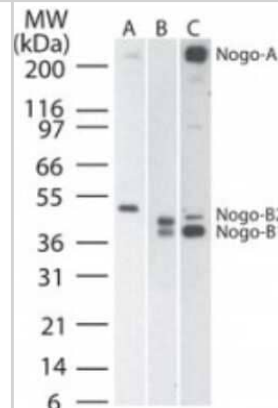
Product Information	
Unit Size	0.2 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit Nogo Antibody - BSA Free (NB100-56681) is a polyclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and Simple Western. Anti-Nogo Antibody: Cited in 26 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	57142
Gene Symbol	RTN4
Species	Human, Mouse, Rat, Rabbit, Sheep
Reactivity Notes	Rabbit reactivity reported in scientific literature (PMID: 24223763).
Specificity/Sensitivity	This recognizes Nogo-A (approx. 220 kD) and Nogo-B2 and B1 (approx. 50 kD and 48 kD in human and 43 kD and 41 kD in mouse and rat, respectively).
Immunogen	A synthetic peptide to an internal portion of human Nogo A (between amino acids 1-50) [UniProt Q9NQC3].

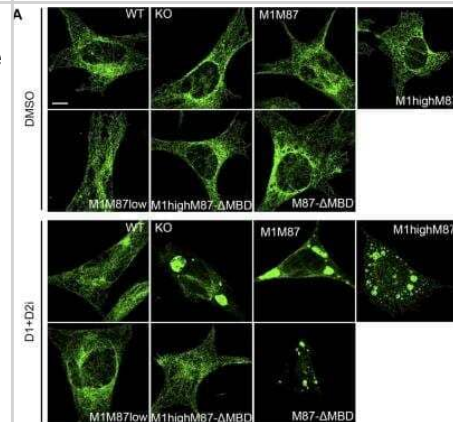
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:2000, Simple Western 1:1000, ELISA reported in scientific literature (PMID 17413036), Immunohistochemistry reported in scientific literature (PMID 30208932), Immunocytochemistry/ Immunofluorescence reported in scientific literature (PMID 27132996), Immunohistochemistry-Paraffin 1:100
Application Notes	<p>This antibody recognizes Nogo A (approximately 220 kD) and Nogo B2 and B1 (approximately 50 kD and 48 kD in human and 43 kD and 41 kD in mouse and rat, respectively).</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See Simple Western Antibody Database for Simple Western validation: Tested in Human Brain lysate 0.05 mg/mL, separated by Size, antibody dilution of 1:1000, apparent MW was 56 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.</p>

Images

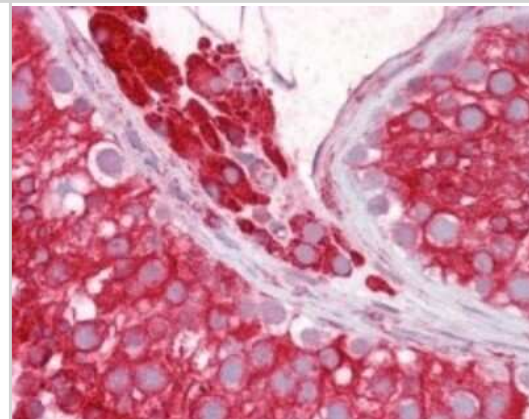
Western Blot: Nogo Antibody [NB100-56681] - Analysis of Nogo A and B in A) human, B) mouse, and C) rat brain tissue lysate using Nogo antibody at 1:2000.



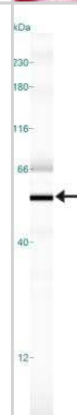
Immunocytochemistry/Immunofluorescence: Nogo Antibody [NB100-56681] - Increased lipid droplet biogenesis buffers lack spastin-M1 at the ER. MEF cell lines were starved in HBSS and treated either with inhibitors of DGAT1 and DGAT2 (D1+D2i) or DMSO overnight and stained with antibodies against Nogo antibody. Representative single-plane confocal images. Scale bar: 10 μ m. Image collected and cropped by CiteAb from the following publication (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7184029/>) licensed under a CC-BY license.



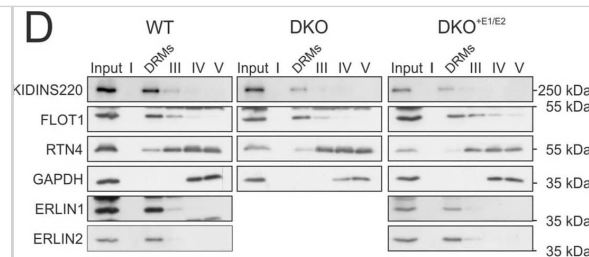
Immunohistochemistry-Paraffin: Nogo Antibody [NB100-56681] - Analysis of human testis using Nogo antibody at 1:100.



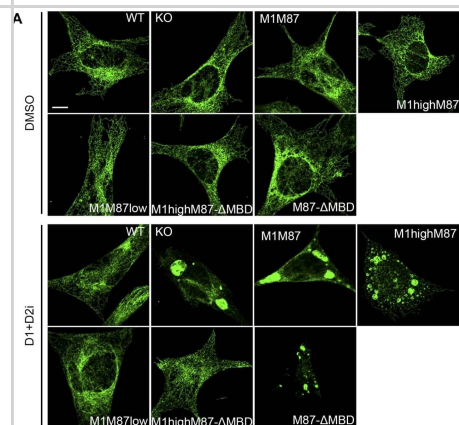
Simple Western: Nogo Antibody [NB100-56681] - Lane view shows a specific band for Nogo in 0.05 mg/ml of Human Brain lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Generation of cells lacking ERLIN1 and ERLIN2 and identification of the interactome of ERLIN2. (A) Expression levels of ERLIN1 and ERLIN2 mRNAs measured by qRT-PCR normalized for GAPDH in double knock-out (DKO) compared with WT (set to 100). (B) Western blot for ERLIN1 and ERLIN2 in WT, DKO, and DKO+E1/E2. GAPDH was used as a loading control. Asterisks mark unspecific bands. (C) Immunofluorescence staining of ERLIN2 in WT, DKO, and DKO+E1/E2. (D) Western blot for ERLIN1 and ERLIN2 in the input and different fractions of detergent-resistant membrane (DRM)-isolating gradients from WT, DKO, and DKO+E1/E2 cells. FLOT1 and KIDINS220 are DRM markers, RTN4 is a non-DRM protein, and GAPDH is a soluble protein. (E) Volcano plot of endogenous ERLIN2 interactors in WT compared with DKO cells. N = 4 biological replicates. Significantly enriched proteins (Q-value ≤ 0.05) in DKO are labelled in blue. (F) Enriched gene ontology cellular component (GOCC) terms of proteins with Q-value ≤ 0.05 performed using the gProfiler webtool; all proteins identified in the analysis were used as background. Source data are available for this figure. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38782601>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Increased lipid droplet biogenesis buffers lack spastin-M1 at the ER. (A) MEF cell lines were starved in HBSS and treated either with inhibitors of DGAT1 and DGAT2 (D1+D2i) or DMSO overnight and stained with antibodies against reticulon 4. Representative single-plane confocal images. Scale bar: 10 μ m. (B) Representative Western blot of spastin levels in the MEF cell lines used. (C) Bar graphs show the percentage of cells possessing collapsed ER in each cell line. Error bars represent SD. One-way ANOVA with post-Tukey test: **P < 0.01, ***P < 0.001. n = 4–5 independent experiments. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32321733>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Belur NR, Bustos BI, Lubbe SJ, Mazzulli JR. et Al. Nuclear aggregates of NONO/SFPQ and A-to-I-edited RNA in Parkinson's disease and dementia with Lewy bodies *Neuron* 2024-05-18 [PMID: 38761794]

Xue C, Zeng P, Gong K et Al. Nogo-B inhibition facilitates cholesterol metabolism to reduce hypercholesterolemia *Cell Rep* 2024-09-03 [PMID: 39235944]

Chen Q, Xiao Y, Chai P, Zheng P et Al. ATL3 Is a Tubular ER-Phagy Receptor for GABARAP-Mediated Selective Autophagy *Curr Biol* 2019-02-19 [PMID: 30773365]

Yi Chen, Wenquan Hu, Qi Li, Shiwei Zhao, Dan Zhao, Shuang Zhang, Zhuo Wei, Xiaoxiao Yang, Yuanli Chen, Xiaoju Li, Chenzhong Liao, Jihong Han, Qing Robert Miao, Yajun Duan NGBR is required to ameliorate type 2 diabetes in mice by enhancing insulin sensitivity *The Journal of Biological Chemistry* 2021-04-02 [PMID: 33812996]

Matteo Veronese, Sebastian Kallabis, Alexander Tobias Kaczmarek, Anushka Das, Lennart Robers, Simon Schumacher, Alessia Lofrano, Susanne Brodesser, Stefan Müller, Kay Hofmann, Marcus Krüger, Elena I Rugarli ERLIN1/2 scaffolds bridge TMUB1 and RNF170 and restrict cholesterol esterification to regulate the secretory pathway *Life Science Alliance* 2024-05-24 [PMID: 38782601]

Li J, Sun Y, Xue C et al. Nogo-B deficiency suppresses white adipogenesis by regulating β -catenin signaling *Life sciences* 2023-03-15 [PMID: 36931495] (WB, Mouse)

Gong K, Zhang Z, Chen SS et al. 6-Methyl flavone inhibits Nogo-B expression and improves high fructose diet-induced liver injury in mice *Acta pharmacologica Sinica* 2023-07-04 [PMID: 37402997]

Batenburg V. Mapping the Neuronal Cytoskeleton with Expansion Microscopy. *Methods Cell Biol* 2021-01-22 [PMID: 33478685]

Yousefi R, Jevdokimenko K, Kluever V Et Al. Influence of Subcellular Localization and Functional State on Protein Turnover *Cells* 2021-08-07 [PMID: 34359917]

Wang X, Yang Y, Zhao D et al. Inhibition of high-fat diet-induced obesity via reducing of ER-resident protein Nogo occurs through multiple mechanisms *Journal of Biological Chemistry* 2022-01-01 [PMID: 34998825] (IHC-P, Mouse)

Zahavi EE, Hummel JJA, Han Y et al. Combined kinesin-1 and kinesin-3 activity drives axonal trafficking of TrkB receptors in Rab6 carriers *Developmental cell* 2021-02-22 [PMID: 33571451]

Petrova V, Pearson CS, Ching J et al. Protrudin functions from the endoplasmic reticulum to support axon regeneration in the adult CNS *Nat Commun* 2020-11-05 [PMID: 33154382]

More publications at <http://www.novusbio.com/NB100-56681>





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Products Related to NB100-56681

NB820-59177	Human Brain Whole Tissue Lysate (Adult Whole Normal)
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.

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