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

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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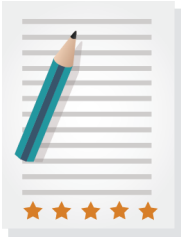
Updated 2/21/2025 v.20.1



NB100-56681

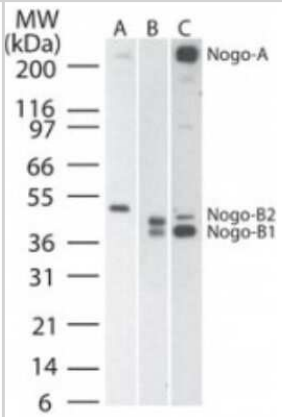
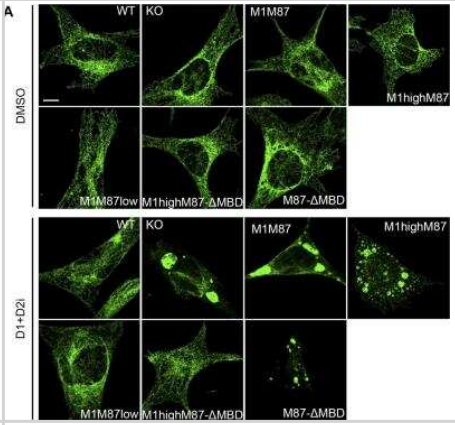
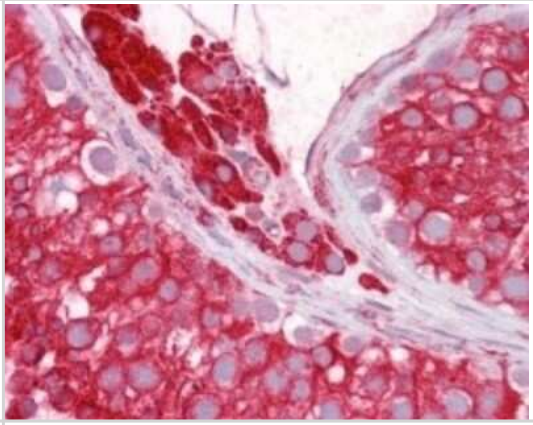
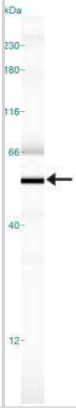
Nogo Antibody - BSA Free

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	
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, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
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	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). 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 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.

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 um. 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.	

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 ?-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)
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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