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Datasheet for 600-401-C01

NogoA Antibody

Overview

Description:	Anti-NogoA (RABBIT) Antibody - 600-401-C01
Item No.:	600-401-C01
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	NogoA is a member of a family of integral membrane proteins termed reticulons that are thought to be involved in numerous disorders including neurodegenerative diseases. Reticulon proteins are known to regulate many cellular processes and interact with multiple proteins and receptors such as BACE. NogoA was initially identified as a myelin-associated neurite outgrowth inhibitor. It is highly expressed in oligodendrocytes in the white matter of the CNS; blocking its activity with antibodies or other factors results in improved axon regrowth and functional recovery in experimental CNS lesion models. NogoA has also been suggested to play a role in neurodegenerative diseases such as Amyotrophic lateral sclerosis, in which case NogoA is found at elevated levels in postmortem muscular samples, and multiple sclerosis (MS), in which case autoantibodies to NogoA have been found in serum and cerebrospinal fluid in MS patients.
Synonyms:	NogoA, Neurite outgrowth inhibitor A, reticulon 4, RTN4, Reticulon-4, Nogo protein, Foocen, Neuroendocrine-specific protein, NSP, Neuroendocrine-specific protein C homolog, RTN-x, Reticulon-5
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RTN4
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of human NogoA protein.
Purity/Specificity:	This Affinity purified antibody is directed against NogoA protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least five isoforms of Nogo are known to exist; this antibody is specific for NogoA and NogoE. Reactivity with NogoA from sources other than human or mouse has not been determined.
Relevant Links:	• UniProtKB - Q9NQC3 • NCBI - NP_065393 • GeneID - 57142

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-NogoA antibody has been tested for use in ELISA, Western Blot, immunofluorescence, and in immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Despite its predicted molecular weight, NogoA typically migrates at 180kDa in an SDS-PAGE.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:40,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	0.5 - 1.0 µg/mL

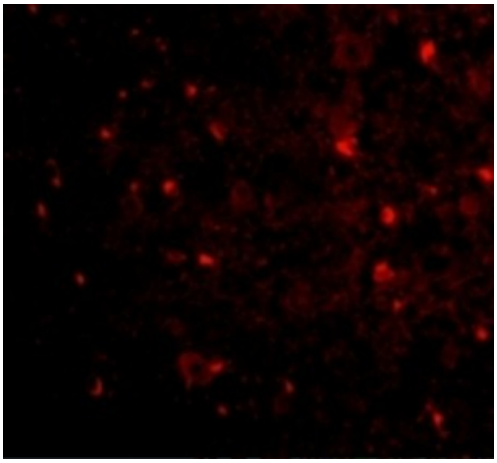
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

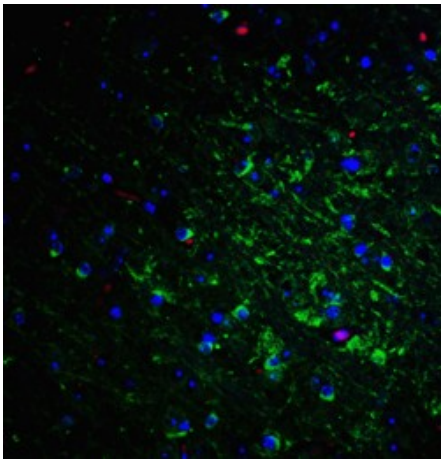
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

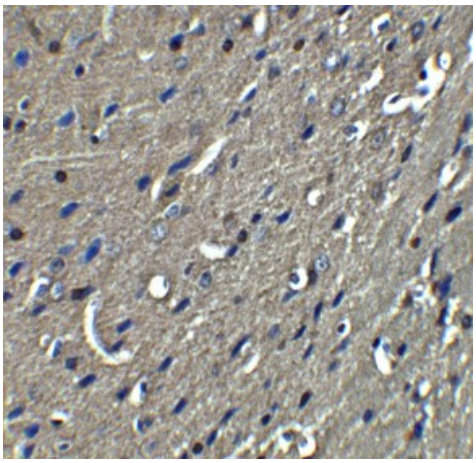
Images



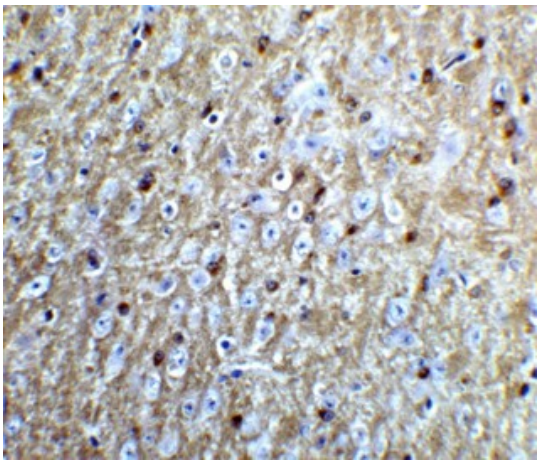
Immunofluorescence Microscopy
Immunofluorescence of NogoA in Mouse Brain tissue with NogoA antibody at 20 µg/mL.



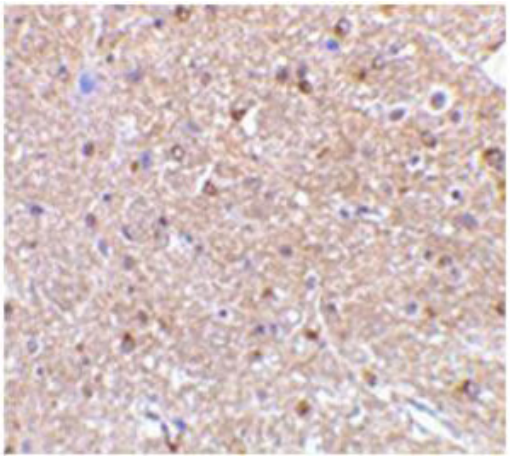
Immunofluorescence Microscopy
Immunofluorescence of NogoA in mouse brain tissue with NogoA Antibody at 20 µg/mL.
Green: NogoA antibody.
Red: Phylloidin staining.
Blue: DAPI staining.



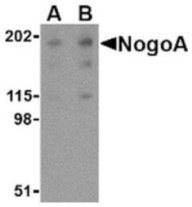
Immunohistochemistry
Immunohistochemistry of NogoA in mouse brain tissue with NogoA antibody at 5 µg/ml.



Immunohistochemistry
Immunohistochemistry of NogoA in mouse brain tissue with NogoA Antibody at 5 µg/mL.



Immunohistochemistry
Immunohistochemistry showing detection of NogoA in mouse brain tissue. Primary antibody anti-NogoA was used at 2.5 µg/ml.



Western Blot

Western blot of NogoA Antibody. Lysate: human brain tissue lysate. Primary antibody: Anti-NogoA at 0.5 µg/mL (Lane A); 1.0 µg/mL (Lane B). Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C

Disclaimer

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