

## Anti-NogoA RTN4 Antibody

Catalog Number: A01844

### About RTN4

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.

### Overview

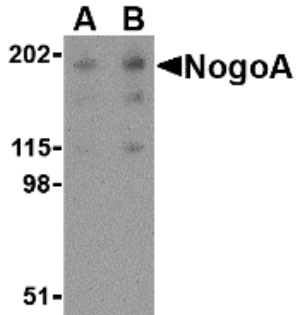
Product Name	Anti-NogoA RTN4 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NogoA RTN4 Antibody (Catalog # A01844). Tested in ELISA, WB, IHC-P, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, ICC, WB
Clonality	Polyclonal
Formulation	NogoA Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	NogoA antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9NQC3

### Technical Details

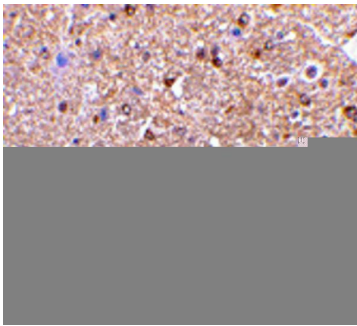
Immunogen	NogoA antibody was raised against a 19 amino acid synthetic peptide from near the center of human NogoA. The immunogen is located within amino acids 200 - 250 of NogoA.
Predicted Reactive Species	Bovine, Sheep
Cross Reactivity	At least five isoforms of Nogo are known to exist; this antibody is specific for NogoA and NogoE.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	NogoA Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	<p>NogoA antibody can be used for detection of NogoA by Western blot at 0.5 - 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.</p> <p>Antibody validated: Western Blot in human samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.</p>

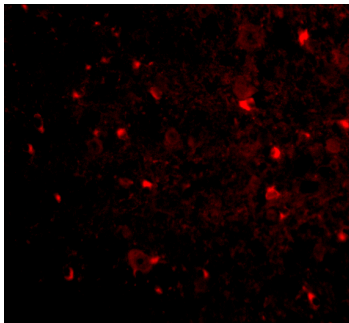
## Anti-NogoA RTN4 Antibody (A01844) Images



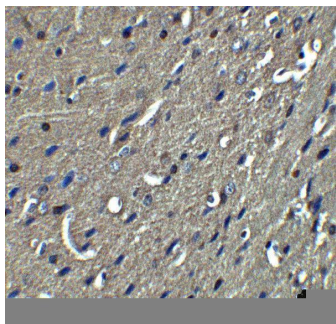
Western blot analysis of NogoA in human brain tissue lysate with NogoA antibody at (A) 0.5 and (B) 1 ug/mL.



Immunohistochemistry of NogoA in mouse brain tissue with NogoA antibody at 2.5 ug/mL.

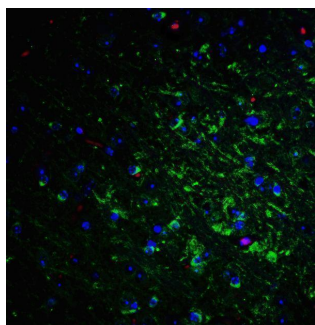
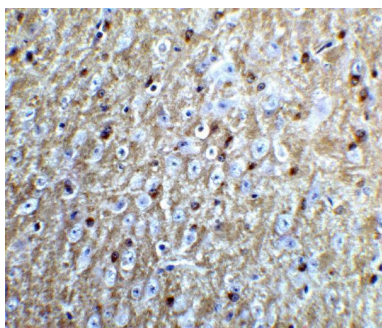


Immunofluorescence of NogoA in Mouse Brain tissue with NogoA antibody at 20 ug/mL.



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

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



Immunofluorescence of NogoA in mouse brain tissue with NogoA Antibody at 20 ug/mL. Green: NogoA antibody (A01844) Red: Phylloidin staining Blue: DAPI staining

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### Anti-NogoA RTN4 Antibody

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