

Product datasheet for **TA306414**

Nogo A (RTN4) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 0.5 - 1 ug/mL, ICC: 2.5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	NogoA antibody was raised against a 19 amino acid peptide from near the center of human NogoA.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	reticulon 4
Database Link:	NP_065393 Entrez Gene 57142 Human Q9NQC3



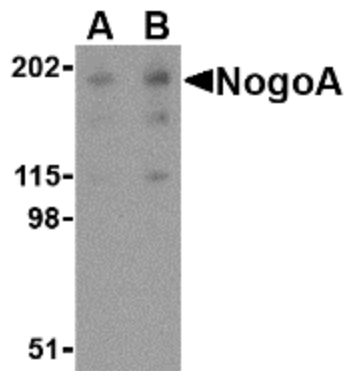
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Background:

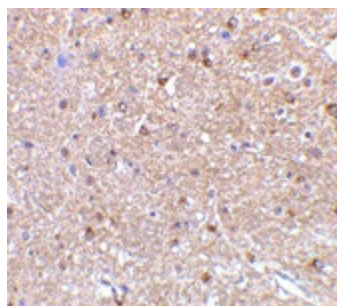
NogoA is a member of a family of integral membrane proteins termed reticulons that are thought to be involved in numerous disorders including neurodegenerative diseases. Reticulon proteins are known to regulate many cellular processes and interact with multiple proteins and receptors such as BACE. NogoA 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. Despite its predicted molecular weight, NogoA typically migrates at 180kDa in an SDS-PAGE. At least five isoforms of Nogo are known to exist; this antibody is specific for NogoA and NogoE.

Synonyms:

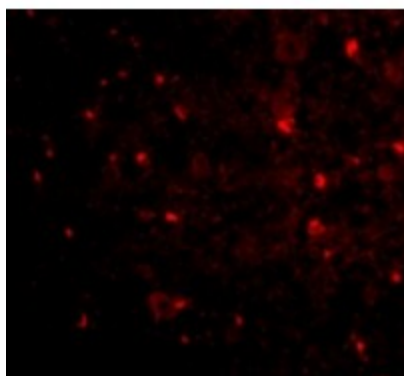
250; ASY; Nbla00271; Nbla10545; NI220; NOGO; NOGO-A; Nogo-B; Nogo-C; NOGOC; NSP; NSP-CL; RTN-X; RTN4-A

Product 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.