

Datasheet for ABIN500369

anti-Reticulon 4 antibody (Isoform 1)**2** Images[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	Reticulon 4 (RTN4)
Binding Specificity:	Isoform 1
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Reticulon 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	NogoA antibody was raised against a 19 amino acid peptide from near the center of human NogoA.
Isotype:	IgG
Specificity:	This antibody detects RTN4 / NOGO at Center. It is specific for NogoA and NogoE.
Cross-Reactivity (Details):	Species reactivity (tested): Human, mouse, rat
Purification:	Peptide affinity chromatography

Target Details

Target:	Reticulon 4 (RTN4)
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Target Details

Alternative Name:	Reticulon-4 / RTN4 (RTN4 Products)
Background:	<p>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 180 kDa in an SDS-PAGE. At least five isoforms of Nogo are known to exist. Synonyms: Foccen, KIAA0886, NOGO, NSP, Neurite outgrowth inhibitor, Neuroendocrine-specific protein, Neuroendocrine-specific protein C homolog, Reticulon-5</p>
Gene ID:	57142
NCBI Accession:	NP_065393
UniProt:	Q9NQC3
Pathways:	Neurotrophin Signaling Pathway , Regulation of Cell Size , SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	<p>ELISA. Western blot: 0.5 - 1 µg/mL. Immunohistochemistry on paraffin sections.</p> <p>Other applications not tested.</p> <p>Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Restrictions:	For Research Use only

Handling

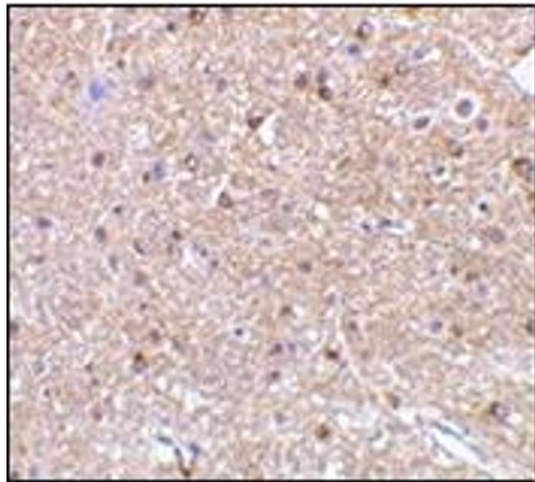
Buffer:	PBS containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.

Handling

Storage: 4 °C/-20 °C

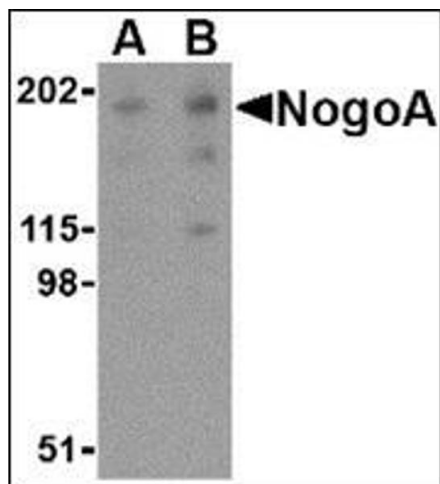
Storage Comment: Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of NogoA in mouse brain tissue with this product at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of NogoA in human brain tissue lysate with this product at (A) 0.5 and (B) 1 µg/ml.