

Datasheet for ABIN6656584  
**anti-Reticulon 4 antibody**



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2 Images

## Overview

Quantity:	200 µL
Target:	Reticulon 4 (RTN4)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Reticulon 4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Fluorescence Microscopy (FM)

## Product Details

Purpose:	Nogo-A B Antibody
Immunogen:	Nogo-A/B Antibody was produced from whole rabbit serum prepared by repeated immunizations with a synthetic sequence corresponding to internal Nogo-A human protein.
Isotype:	IgG
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with Anti-Nogo-A B from human, mouse, and rat based on 100 % homology with the immunizing sequence.
Purification:	Anti-Nogo A/B Antibody is sera.

## Target Details

Target:	Reticulon 4 (RTN4)
Alternative Name:	Nogo-A B ( <a href="#">RTN4 Products</a> )

## Target Details

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**Background:** Synonyms: KIAA0886, NOGO, Reticulon-4, Foccen, Neurite outgrowth inhibitor, Nogo protein, Neuroendocrine-specific protein, NSP, Neuroendocrine-specific protein C homolog, RTN-x, Reticulon-5

Background: Nogo B 1/2 is a novel myelin-associated, intermediate-length splice variant of Nogo belonging to the reticulon family. It is a multi domain neurite growth inhibitory protein containing several discrete regions with growth inhibitory functions and is a component of the CNS myelin that prevents axonal regeneration in the adult vertebrate CNS. Nogo B1/2 along with NGBR mediated chemotaxis in HUVECs and induced tube formation in 3-dimensional cultures. It is mostly found in intact blood vessels, smooth muscle cells, and endothelial cell, with its N-terminus oriented extracellularly and is a regulator of vascular homeostasis and remodeling. It plays an important role in sporadic and familial amyotrophic lateral sclerosis. Anti-Nogo A/B is ideal for researchers interested in Neurobiology research.

Gene Name: RTN4

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Gene ID: 57142

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NCBI Accession: [NP\\_008939](#)

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UniProt: [Q9NQC3](#)

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Pathways: [Neurotrophin Signaling Pathway](#), [Regulation of Cell Size](#), [SARS-CoV-2 Protein Interactome](#)

## Application Details

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**Application Notes:** ELISA\_Dilution: User Optimized  
Immunohistochemistry\_Dilution: 1:100  
IF\_Microscopy\_Dilution: User Optimized  
Western\_Blot\_Dilution: 1:500-1:2000

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**Comment:** Anti-Nogo A/B Antibody has been tested by WB, ELISA, ICC/IF, IHC, IHC-P. Expect a band approximately 48-50kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Buffer:** Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2  
Stabilizer: 0.05 % BSA

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## Handling

Preservative: 0.05 % (w/v) Sodium Azide

Preservative: Sodium azide

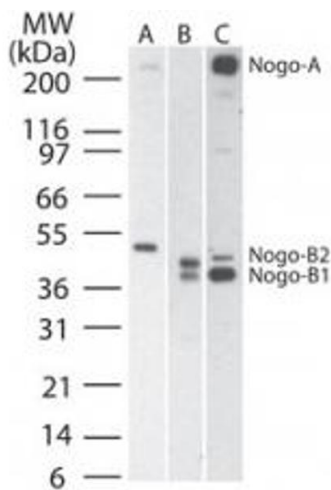
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store Nogo A B antibody 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.

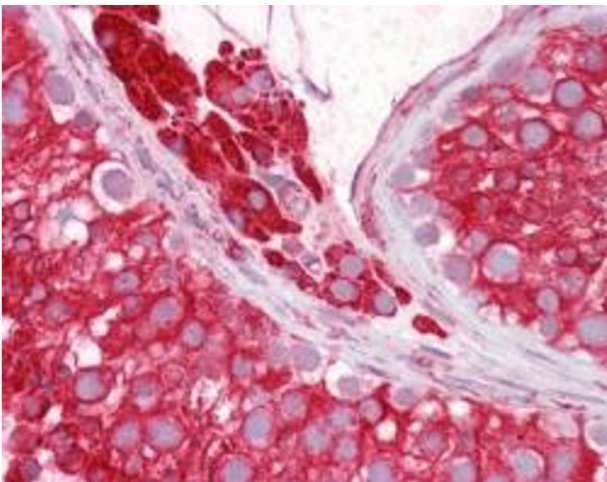
Expiry Date: 12 months

## Images



### Western Blotting

**Image 1.** Nogo A B Western Blot. Western Blot of Rabbit Anti-Nogo A B antibody. Lane 1: Human. Lane 2: Mouse. Lane 3: Rat brain tissue. Primary antibody: Nogo antibody at 1:2000 µg/mL for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for Nogo A B. Other band(s): none.



### Immunohistochemistry

**Image 2.** Nogo A B Immunohistochemistry. Immunohistochemistry of Rabbit Anti-Nogo A B antibody. Tissue: human testis. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Nogo antibody at 1:100 for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: