

For Research Use Only

# RTN4/NOGO Polyclonal antibody



Catalog Number: 10740-1-AP

6 Publications

## Basic Information

<b>Catalog Number:</b> 10740-1-AP	<b>GenBank Accession Number:</b> BC007109	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150UL, Concentration: 500 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 57142	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> reticulon 4	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 130 kDa	
<b>Immunogen Catalog Number:</b> AG1164	<b>Observed MW:</b> 190-210 kDa, 45 kDa	

## Applications

**Tested Applications:**  
FC, IHC, WB, ELISA

**Cited Applications:**  
IF, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** mouse brain tissue, rat brain tissue

**IHC:** mouse testis tissue, human prostate cancer tissue

## Background Information

Reticulon (RTN) proteins are a group of membrane-bound proteins that largely reside in endoplasmic reticulum (ER) (PMID: 18177508). Reticulon proteins share a common sequence feature, the reticulon homology domain (RHD). They are involved in shaping the tubular endoplasmic reticulum network, membrane trafficking, inhibition of axonal growth, and apoptosis (PMID: 24218324). Four mammalian reticulons (RTN1-4) exist. RTN4 (also known as Neurite outgrowth inhibitor or Nogo) is a myelin-associated neurite growth inhibitory protein. There are three isoforms: Nogo-A, Nogo-B, and Nogo-C.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiao Wang	33186557	Cell Metab	WB
Jia-Li Li	32589081	Fetal Pediatr Pathol	WB
Hua Yang	27325701	J Biol Chem	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

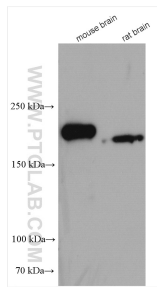
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

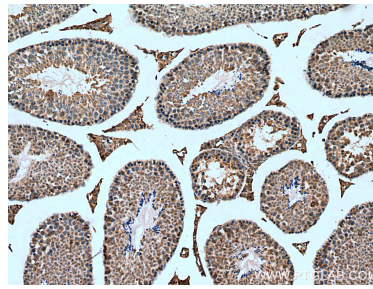
E: proteintech@ptglab.com  
W: ptglab.com

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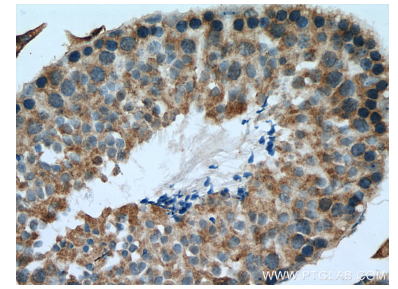
## Selected Validation Data



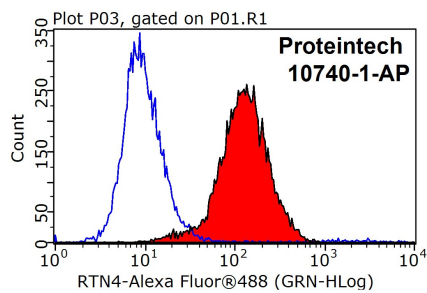
Various lysates were subjected to SDS PAGE followed by western blot with 10740-1-AP (RTN4/NOGO antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 10740-1-AP (RTN4/NOGO antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 10740-1-AP (RTN4/NOGO antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> SH-SY5Y cells were stained with 0.2ug RTN4/NOGO antibody (10740-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.