

For Research Use Only

RTN4/NOGO Polyclonal antibody

Catalog Number: 10740-1-AP

17 Publications



Basic Information

Catalog Number:

10740-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1164

GenBank Accession Number:

BC007109

GeneID (NCBI):

57142

UNIPROT ID:

Q9NQC3

Full Name:

reticulon 4

Calculated MW:

130 kDa

Observed MW:

190-210 kDa, 45 kDa, 22-25 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:50-1:500

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IP, IF

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

IF/ICC : A549 cells,

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. Some isoforms of RTN4 have been described. RTN4A (Nogo-A, runs at ~200 kDa), RTN4B (Nogo-B, 40-55 kDa), and RTN4C (Nogo-C, 22-25 kDa) are three major isoforms (PMID: 31092426; 16469703).

Notable Publications

Author	Pubmed ID	Journal	Application
Maria Sol Herrera-Cruz	34743744	Biol Direct	WB
Dwayne J Byrne	35346366	Acta Neuropathol Commun	WB,IF
Peng-Peng Zhu	35348668	Hum Mol Genet	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

*** 20ul sizes contain 0.1% BSA

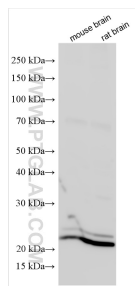
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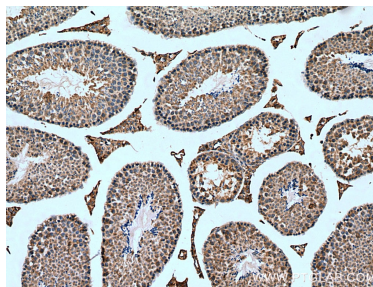
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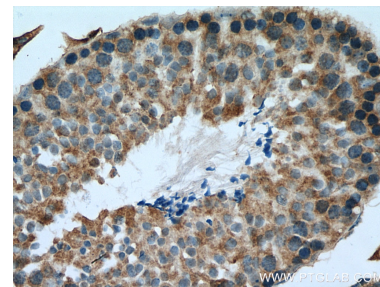
Selected Validation Data



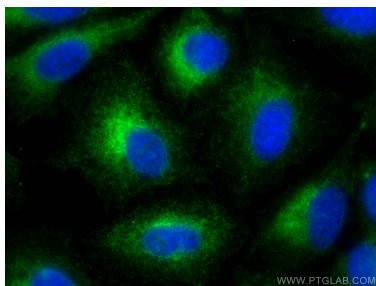
Various lysates were subjected to SDS PAGE followed by western blot with 10740-1-AP (RTN4/NOGO antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using RTN4/NOGO antibody (10740-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).