

For Research Use Only

RTN4/NOGO Polyclonal antibody

Catalog Number: 10740-1-AP **15 Publications**



Basic Information

| | | |
|--|---|---|
| Catalog Number: 10740-1-AP | GenBank Accession Number: BC007109 | Purification Method: Antigen affinity purification |
| Size: 500 µg/ml | GeneID (NCBI): 57142 | Recommended Dilutions: WB 1:1000-1:8000 IHC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: Q9NQC3 | |
| Isotype: IgG | Full Name: reticulon 4 | |
| Immunogen Catalog Number: AG1164 | Calculated MW: 130 kDa | |
| | Observed MW: 190-210 kDa, 45 kDa, 22-25 kDa | |

Applications

| | |
|--|---|
| Tested Applications: FC, IHC, WB, ELISA | Positive Controls: WB : mouse brain tissue, rat brain tissue IHC : mouse testis tissue, human prostate cancer tissue |
| Cited Applications: WB, IP, IF | |
| Species Specificity: human, mouse, rat | |
| Cited Species: human, rat, mouse | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

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 |

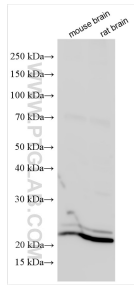
Storage

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

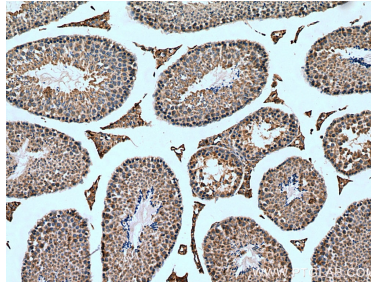
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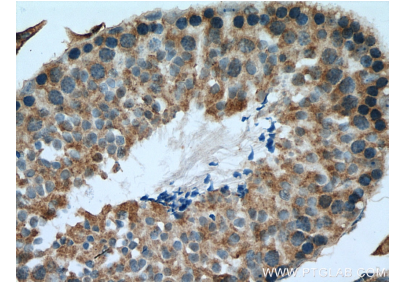
Selected Validation Data



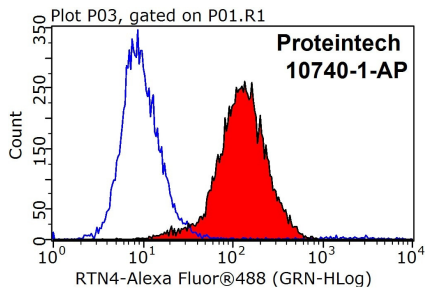
Various lysates were subjected to SDS PAGE followed by western blot with 10740-1-AP (RTN4/NOGO antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).



1X10⁶ 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.