

## RTN4/NOGO Polyclonal Antibody

Catalog number: 10740-1-AP

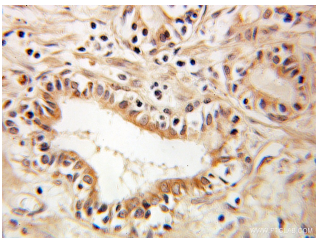
Size: 20 µg/150 µl

Source: Rabbit

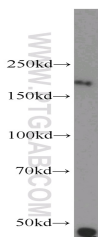
Isotype: IgG

Synonyms:

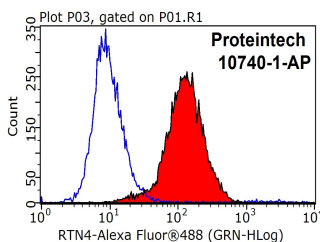
RTN4; ASY, Foccen, KIAA0886, Nbla00271, Nbla10545, Neurite outgrowth inhibitor, NI220/250, NOGO, NOGO A, Nogo B, Nogo C, Nogo protein, NOGOA, NOGOC, NSP, NSP CL, reticulon 4, Reticulon 5, RTN X, RTN4, RTN4 A, RTN4 B1, RTN4 B2, RTN4 C, SP1507



Immunohistochemical of paraffin-embedded human prostate cancer using 10740-1-AP (RTN4 antibody) at dilution of 1:100 (under 10x lens)



mouse brain tissue were subjected to SDS PAGE followed by western blot with 10740-1-AP (RTN4 antibody) at dilution of 1:300



1X10<sup>6</sup> SH-SY5Y cells were stained with 0.2 µg RTN4 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.

### Background

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.

### Applications

Tested applications:	ELISA, WB, IHC, FC
Species specificity:	Human, Mouse; other species not tested.
Calculated RTN4/NOGO MW:	130 kDa
Observed RTN4/NOGO MW:	45 kDa, 190-210 kDa
Positive WB detected in	Mouse brain tissue
Positive IHC detected in	Human prostate cancer tissue
Positive FC detected in	SH-SY5Y cells
Recommended dilution:	WB: 1:200-1:1000 IHC: 1:20-1:200 FC: N/A

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag1164
GenBank accession number:	BC007109
Gene ID (NCBI):	57142
Full name:	Reticulon 4

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.