

RTN4 antibody - middle region

Rabbit Polyclonal Antibody Catalog # AI12714

Product Information

Application WB
Primary Accession Q9NQC3

Other Accession <u>NM 207520, NP 997403</u>

Reactivity Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine,

Sheep

Predicted Human, Mouse, Rat, Rabbit, Pig, Chicken, Dog, Guinea Pig, Horse, Bovine,

Sheep

HostRabbitClonalityPolyclonalCalculated MW129931

Additional Information

Gene ID 57142

Alias Symbol ASY, NI220/250, NOGO, NOGO-A, NOGOC, NSP, NSP-CL, Nbla00271,

Nbla10545, Nogo-B, Nogo-C, RTN-X, RTN4-A, RTN4-B1, RTN4-B2, RTN4-C

Other Names Reticulon-4, Foocen, Neurite outgrowth inhibitor, Nogo protein,

Neuroendocrine-specific protein, NSP, Neuroendocrine-specific protein C

homolog, RTN-x, Reticulon-5, RTN4, KIAA0886, NOGO

Format Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium

azide and 2% sucrose.

Reconstitution & Storage Add 50 ul of distilled water. Final anti-RTN4 antibody concentration is 1 mg/ml

in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C.

Avoid repeat freeze-thaw cycles.

Precautions RTN4 antibody - middle region is for research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name RTN4 (HGNC:14085)

Function Required to induce the formation and stabilization of endoplasmic reticulum

(ER) tubules (PubMed:24262037, PubMed:25612671, PubMed:27619977). They regulate membrane morphogenesis in the ER by promoting tubular ER production (PubMed:24262037, PubMed:25612671, PubMed:27619977, PubMed:27786289). They influence nuclear envelope expansion, nuclear pore complex formation and proper localization of inner nuclear membrane proteins (PubMed:26906412). However each isoform have specific functions

mainly depending on their tissue expression specificities (Probable).

Cellular Location

[Isoform A]: Endoplasmic reticulum membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein; Cytoplasmic side Synapse {ECO:0000250 | UniProtKB:Q99P72}. Note=Anchored to the membrane of the endoplasmic reticulum (ER) through 2 putative transmembrane domains. Localizes throughout the ER tubular network (PubMed:27619977) Co-localizes with TMEM33 at the ER sheets [Isoform C]: Endoplasmic reticulum membrane; Multi-pass membrane protein

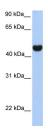
Tissue Location

Isoform A: is specifically expressed in brain and testis and weakly in heart and skeletal muscle. Isoform B: widely expressed except for the liver. Highly expressed in endothelial cells and vascular smooth muscle cells, including blood vessels and mesenteric arteries (PubMed:15034570, PubMed:21183689). Isoform C: is expressed in brain, skeletal muscle and adipocytes. Isoform D is testis-specific.

References

Hu,F.(2008)J.Neurosci.28(5),1262-1269ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.For longtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.Publications:Beetz,C.etal.Aspasticpa raplegiamousemodelrevealsREEP1-dependentERshaping.J.Clin.Invest.123,4273-82(2013).WB,Human,Bovine, Dog,Rat,Horse,Rabbit,Sheep,Pig,Mouse,Guineapig,Zebrafish24051375

Images



WB Suggested Anti-RTN4 Antibody Titration: 0.2-1 µg/ml Positive Control: Human brain

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.