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RTN4RL2 Antibody

Catalog # ASC11586

Product Information

Application	WB, E
Primary Accession	Q86UN3
Other Accession	NP_848665, 30425563
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	46106
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	RTN4RL2 antibody can be used for detection of RTN4RL2 by Western blot at 1 - 2 □g/mL.

Additional Information

Gene ID	349667
Other Names	Reticulon-4 receptor-like 2, Nogo receptor-like 3, Nogo-66 receptor homolog 1, Nogo-66 receptor-related protein 2, NgR2, RTN4RL2 (HGNC:23053)
Target/Specificity	RTN4RL2; Three alternatively spliced transcript variants have been observed. RTN4RL2 antibody is predicted to not cross-react with other Nogo receptor-like proteins.
Reconstitution & Storage	RTN4RL2 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	RTN4RL2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RTN4RL2 (HGNC:23053)
Function	Cell surface receptor that plays a functionally redundant role in the inhibition of neurite outgrowth mediated by MAG (By similarity). Plays a functionally redundant role in postnatal brain development. Contributes to normal axon migration across the brain midline and normal formation of the corpus callosum. Does not seem to play a significant role in regulating axon regeneration in the adult central nervous system. Protects motoneurons against apoptosis; protection against apoptosis is probably mediated by MAG (By similarity). Like other family members, plays a role in restricting the number dendritic spines and the number of synapses that are formed during brain development (PubMed:22325200). Signaling mediates activation of Rho

	and downstream reorganization of the actin cytoskeleton (PubMed:22325200).
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor. Membrane raft. Cell projection, dendrite {ECO:0000250|UniProtKB:Q7M6Z0}. Perikaryon {ECO:0000250|UniProtKB:Q80WD1}. Cell projection, axon {ECO:0000250|UniProtKB:Q80WD1}. Note=Localized to the surface of neurons, including axons. Detected close to synapses, but is excluded from synapses. {ECO:0000250|UniProtKB:Q7M6Z0}
Tissue Location	Highly expressed in brain and liver. Expressed at lower levels in kidney, mammary gland, placenta, skeletal muscle, spleen and thyroid.

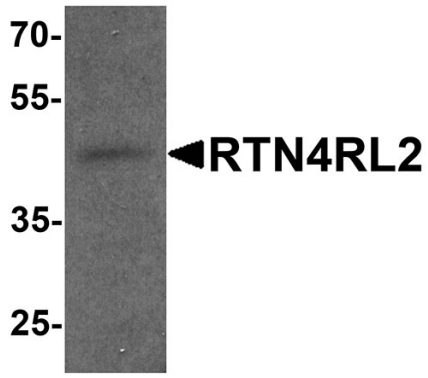
Background

RTN4RL2 Antibody: Reticulon 4 receptor-like 2 (RTN4RL2), also known as NgR2and NgRH1, is a 60 kDa glycosylphosphatidylinositol-anchored protein that is expressed primarily in the brain. It contains eight leucine-rich repeats that are flanked by cysteine-rich sequences at both the N- and C-termini. The membrane anchored RTN4RL2 can be solubilized through the action of phospholipase or an unidentified MTMMP to generate a 46 kDa soluble receptor. It has been suggested that RTN4RL2 may play a role in regulating axonal regeneration and plasticity in the adult central nervous system.

References

Pignot V, Hein AE, Barske C, et al. Characterization of two novel proteins, NgRH1 and NgRH2, structurally and biochemically homologous to the Nogo-66 receptor. J. Neurochem. 2003; 85:717-28.
Venkatesh K, Chivatakam O, Lee H, et al. The Nogo-66 receptor homolog NgR2 is a sialic acid-dependent receptor selective for myelin-associated glycoprotein. J. Neurosci. 2005; 25:808-22.

Images



Western blot analysis of RTN4RL2 in rat brain tissue lysate with RTN4RL2 antibody at 1 µg/mL.

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