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R4RL2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18016B

Specification

R4RL2 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	Q86UN3
Other Accession	NP_848665.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**46106**
Antigen Region	**279-308**

R4RL2 Antibody (C-term) - 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
This R4RL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 279-308 amino acids from the C-terminal region of human R4RL2.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
R4RL2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

R4RL2 Antibody (C-term) - 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}

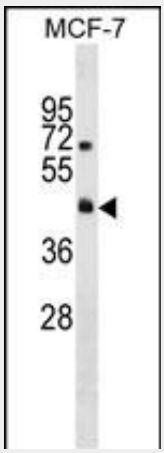
Tissue Location
Highly expressed in brain and liver. Expressed at lower levels in kidney, mammary gland, placenta, skeletal muscle, spleen and thyroid.

R4RL2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

R4RL2 Antibody (C-term) - Images



R4RL2 Antibody (C-term) (Cat. #AP18016b) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the R4RL2 antibody detected the R4RL2 protein (arrow).

R4RL2 Antibody (C-term) - Background

RTN4RL2 may play a role in regulating axonal regeneration and plasticity in the adult central nervous system.

R4RL2 Antibody (C-term) - References

Lee, H., et al. J. Neurosci. 28(11):2753-2765(2008)
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