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R4RL2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP18016b

Specification

R4RL2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q86UN3

R4RL2 Antibody (C-term) Blocking Peptide - 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)

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

R4RL2 Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- Blocking Peptides

R4RL2 Antibody (C-term) Blocking Peptide - Images

R4RL2 Antibody (C-term) Blocking Peptide - Background

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

R4RL2 Antibody (C-term) Blocking Peptide - References

Lee, H., et al. J. Neurosci. 28(11):2753-2765(2008)Taylor, T.D., et al. Nature 440(7083):497-500(2006)Walmsley, A.R., et al. Biochem. Biophys. Res. Commun. 327(1):112-116(2005)Lauren, J., et al. Mol. Cell. Neurosci. 24(3):581-594(2003)Barton, W.A., et al. EMBO J. 22(13):3291-3302(2003)