

R4RL2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP18016b**Specification**

R4RL2 Antibody (C-term) Blocking Peptide - Product InformationPrimary 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 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=23053)
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: <http://www.uniprot.org/citations/22325200>). Signaling mediates activation of Rho and downstream reorganization of the actin cytoskeleton (PubMed: <http://www.uniprot.org/citations/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)