

**NgR3 Antibody**  
**Rabbit mAb**  
**Catalog # AP92963****Specification****NgR3 Antibody - Product Information**

Application	WB, IHC, ICC
Primary Accession	<a href="#">Q86UN2</a>
Clonality	Monoclonal
<b>Other Names</b>	
NgR3; NGRH2; NGRL2; RTN4RL1;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	49065 Da

**NgR3 Antibody - Additional Information**

Dilution	WB~~1:1000 IHC~~1:100~500 ICC~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human NgR3
Description	May play a role in regulating axonal regeneration and plasticity in the adult central nervous system.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**NgR3 Antibody - Protein Information****Name** RTN4RL1 ([HGNC:21329](#))**Function**

Cell surface receptor. Plays a functionally redundant role in postnatal brain development and in regulating axon regeneration in the adult central nervous system. Contributes to normal axon migration across the brain midline and normal formation of the corpus callosum. Protects motoneurons against apoptosis; protection against apoptosis is probably mediated by MAG. Plays a role in inhibiting neurite outgrowth and axon regeneration via its binding to neuronal chondroitin sulfate proteoglycans. Binds heparin (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:<a href="http://www.uniprot.org/citations/22325200" target="\_blank">22325200</a>). Signaling mediates activation of Rho and downstream reorganization of the actin cytoskeleton (PubMed:<a href="http://www.uniprot.org/citations/22325200" target="\_blank">22325200</a>).

**Cellular Location**

Cell membrane; Lipid-anchor, GPI-anchor. Membrane raft. Perikaryon

{ECO:0000250|UniProtKB:Q80WD0}. Cell projection {ECO:0000250|UniProtKB:Q80WD0}.

Note=Localized to the surface of neurons, including axons. {ECO:0000250|UniProtKB:Q80WD0}

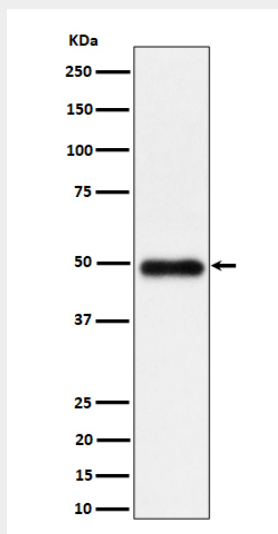
**Tissue Location**

Predominantly expressed in brain. Expressed at lower levels in kidney, lung, mammary gland, placenta, salivary gland, skeletal muscle and spleen.

**NgR3 Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**NgR3 Antibody - Images**

Western blot analysis of NgR3 expression in K562 cell lysate.