

**Anti-RTN4R Antibody**  
Catalog # AP53742**Specification****Anti-RTN4R Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">Q9BZR6</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>50708</b>

**Anti-RTN4R Antibody - Additional Information****Gene ID** 65078**Other Names**

NOGOR; Reticulon-4 receptor; Nogo receptor; NgR; Nogo-66 receptor

**Target/Specificity**

Recognizes endogenous levels of RTN4R protein.

**Dilution**

WB~~1/500 - 1/1000

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-RTN4R Antibody - Protein Information****Name** RTN4R**Synonyms** NOGOR**Function**

Receptor for RTN4, OMG and MAG (PubMed: <a href="http://www.uniprot.org/citations/12037567" target="\_blank">12037567</a>, PubMed: <a href="http://www.uniprot.org/citations/12068310" target="\_blank">12068310</a>, PubMed: <a href="http://www.uniprot.org/citations/12089450" target="\_blank">12089450</a>, PubMed: <a href="http://www.uniprot.org/citations/12426574" target="\_blank">12426574</a>, PubMed: <a href="http://www.uniprot.org/citations/12839991" target="\_blank">12839991</a>, PubMed: <a href="http://www.uniprot.org/citations/16712417" target="\_blank">16712417</a>, PubMed: <a href="http://www.uniprot.org/citations/18411262" target="\_blank">18411262</a>, PubMed: <a href="http://www.uniprot.org/citations/19052207" target="\_blank">19052207</a>). Functions as a receptor for the sialylated gangliosides GT1b

and GM1 (PubMed:<a href="http://www.uniprot.org/citations/18411262" target="\_blank">18411262</a>). Besides, functions as a receptor for chondroitin sulfate proteoglycans (By similarity). Can also bind heparin (By similarity). Intracellular signaling cascades are triggered via the coreceptor NGFR (PubMed:<a href="http://www.uniprot.org/citations/12426574" target="\_blank">12426574</a>). Signaling mediates activation of Rho and downstream reorganization of the actin cytoskeleton (PubMed:<a href="http://www.uniprot.org/citations/16712417" target="\_blank">16712417</a>, PubMed:<a href="http://www.uniprot.org/citations/22325200" target="\_blank">22325200</a>). Mediates axonal growth inhibition (PubMed:<a href="http://www.uniprot.org/citations/12839991" target="\_blank">12839991</a>, PubMed:<a href="http://www.uniprot.org/citations/19052207" target="\_blank">19052207</a>, PubMed:<a href="http://www.uniprot.org/citations/28892071" target="\_blank">28892071</a>). Plays a role in regulating axon regeneration and neuronal plasticity in the adult central nervous system. Plays a role in postnatal brain development. Required for normal axon migration across the brain midline and normal formation of the corpus callosum. Protects motoneurons against apoptosis; protection against apoptosis is probably mediated via interaction with MAG. Acts in conjunction with RTN4 and LINGO1 in regulating neuronal precursor cell motility during cortical development. 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>).

#### Cellular Location

Cell membrane; Lipid- anchor, GPI-anchor. Membrane raft. Cell projection, dendrite {ECO:0000250|UniProtKB:Q99PI8}. Cell projection, axon {ECO:0000250|UniProtKB:Q99PI8}. Perikaryon {ECO:0000250|UniProtKB:Q99M75}. Note=Detected along dendrites and axons, close to synapses, but clearly excluded from synapses {ECO:0000250|UniProtKB:Q99PI8}

#### Tissue Location

Widespread in the brain but highest levels in the gray matter. Low levels in heart and kidney; not expressed in oligodendrocytes (white matter).

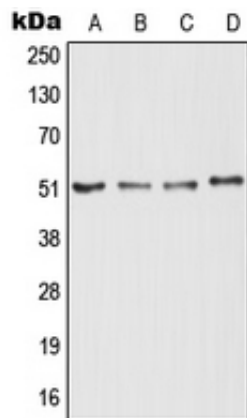
#### Anti-RTN4R Antibody - Protocols

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](#)

#### Anti-RTN4R Antibody - Images





Western blot analysis of RTN4R expression in K562 (A), MCF7 (B), mouse brain (C), rat brain (D) whole cell lysates.

#### **Anti-RTN4R Antibody - Background**

Rabbit polyclonal antibody to RTN4R