

## Rabbit Nogo Receptor Polyclonal Antibody | anti-RTN4R antibody

Nogo Receptor Antibody

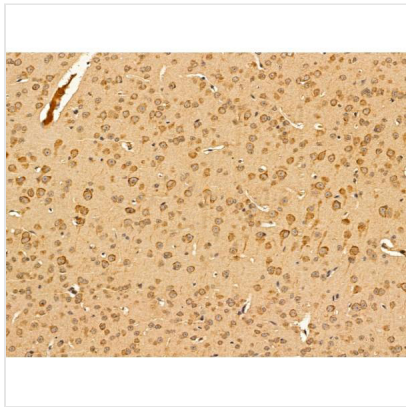
| CATALOG # | HOST   | REACTIVITY                                                      | APPLICATIONS |
|-----------|--------|-----------------------------------------------------------------|--------------|
| AAA329118 | Rabbit | Human, Mouse, Rat<br>Predicted Reactivity: Pig(88%), Horse(88%) | ELISA        |

### PRODUCT SYNONYMS

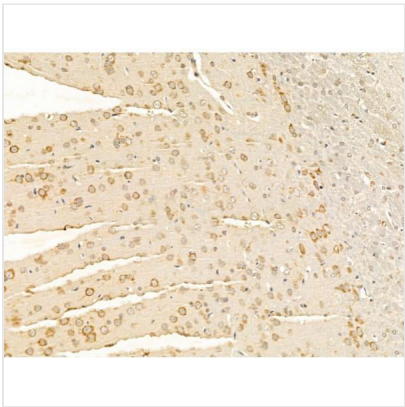
Nogo Receptor; Polyclonal Antibody; Nogo Receptor Antibody; NgR; Nogo 66 receptor; Nogo receptor; Nogor; Reticulon 4 receptor; Rtn4r; UNQ330/PRO526; anti-RTN4R antibody

### PRODUCT SPECIFICATIONS

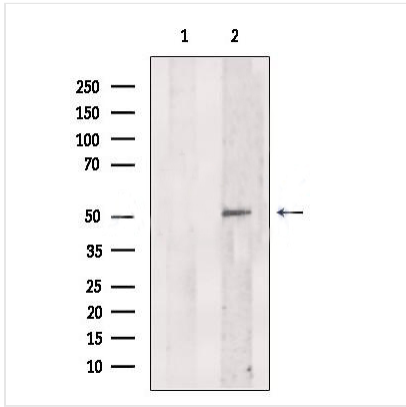
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|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                   |
| Reactivity                                      | Human, Mouse, Rat<br>Predicted Reactivity: Pig(88%), Horse(88%)                                                          |
| Clonality                                       | Polyclonal                                                                                                               |
| Isotype                                         | IgG                                                                                                                      |
| Specificity                                     | Nogo Receptor Antibody detects endogenous levels of total Nogo Receptor.                                                 |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific). |
| Form/Format                                     | Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol                  |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                   |
| Sequence Length                                 | 473                                                                                                                      |
| Applicable Applications for anti-RTN4R antibody | ELISA                                                                                                                    |
| Immunogen                                       | A synthesized peptide derived from human Nogo Receptor, corresponding to a region within the internal amino acids.       |
| Fragment                                        | Fab fragment                                                                                                             |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                        |



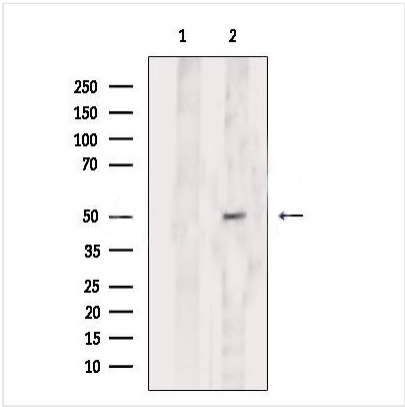
**IHC (Immunohistochemistry)**  
AAA329118 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemisry)**  
AAA329118 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**WB (Western Blot)**  
Western blot analysis of extracts from PC12, using Nogo Receptor Antibody. The lane on the left was treated with blocking peptide.



**WB (Western Blot)**  
Western blot analysis of extracts from MCF7, using Nogo Receptor Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-RTN4R antibody | <p>Function: Receptor for RTN4, OMG and MAG (PubMed:12037567, PubMed:12068310, PubMed:12426574, PubMed:12089450, PubMed:16712417, PubMed:18411262, PubMed:12839991, PubMed:19052207). Functions as receptor for the sialylated gangliosides GT1b and GM1 (PubMed:18411262). Besides, functions as receptor for chondroitin sulfate proteoglycans (By similarity). Can also bind heparin (By similarity). Intracellular signaling cascades are triggered via the coreceptor NGFR (PubMed:12426574). Signaling mediates activation of Rho and downstream reorganization of the actin cytoskeleton (PubMed:16712417, PubMed:22325200). Mediates axonal growth inhibition (PubMed:12839991, PubMed:19052207, PubMed:28892071). 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:22325200).</p> <p>Post Translational Modifications: N-glycosylated. O-glycosylated. Contains terminal sialic acid groups on its glycan chains.</p> <p>Subcellular Location: Cell membrane&gt;Lipid-anchor. Membrane raft. Cell projection&gt;Dendrite. Cell projection&gt;Axon. Perikaryon. Note: Detected along dendrites and axons, close to synapses, but clearly excluded from synapses.</p> <p>Tissue Specificity: Widespread in the brain but highest levels in the gray matter. Low levels in heart and kidney; not expressed in oligodendrocytes (white matter).</p> <p>Subunit Structure: Homodimer (PubMed:18411262). Interacts with MAG (PubMed:12089450, PubMed:12839991, PubMed:18411262, PubMed:19052207). Interacts with RTN4 (PubMed:12839991, PubMed:19052207). Interacts with NGFR (PubMed:12426574, PubMed:18411262, PubMed:19052207). Interacts with LINGO1 (PubMed:14966521, PubMed:19052207). Interacts with KIAA0319L (PubMed:20697954). Interacts with OLFM1; this inhibits interaction with LINGO1 and NGFR (By similarity). Interacts with OMG (PubMed:12068310, PubMed:12839991, PubMed:19052207).</p> <p>Similarity: Belongs to the Nogo receptor family.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------|
| NCBI GI #                        | 25453267                                                                                     |
| NCBI GeneID                      | 65078                                                                                        |
| UniProt Accession #              | Q9BZR6                                                                                       |
| Molecular Weight                 | Observed Molecular Weight: (Observed)50kD.<br>Predicted Molecular Weight: (Calculated)51kDa. |
| NCBI Official Full Name          | Reticulon-4 receptor                                                                         |
| NCBI Official Synonym Full Names | reticulon 4 receptor                                                                         |
| NCBI Official Symbol             | RTN4R                                                                                        |
| NCBI Official Synonym Symbols    | NGR; NOGOR                                                                                   |
| NCBI Protein Information         | reticulon-4 receptor                                                                         |
| UniProt Protein Name             | Reticulon-4 receptor                                                                         |
| UniProt Gene Name                | RTN4R                                                                                        |
| UniProt Synonym Gene Names       | NOGOR; NgR                                                                                   |
| UniProt Entry Name               | RTN4R_HUMAN                                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

