

Nogo R Rabbit pAb
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Catalog # AP94627**Specification**

Nogo R Rabbit pAb - Product Information

| | |
|-------------------|------------------------|
| Application | WB, IHC-P |
| Primary Accession | O99P18 |
| Reactivity | Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 50987 |

Nogo R Rabbit pAb - Additional Information**Gene ID** 65079**Other Names**

Reticulon-4 receptor, Nogo receptor, NgR, Nogo-66 receptor, Nogo66 receptor-1, NgR1, Rtn4r, Ngr1, Nogor

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Nogo R Rabbit pAb - Protein Information**Name** Rtn4r**Synonyms** Ngr1, Nogor**Function**

Receptor for RTN4, OMG and MAG (PubMed: [11201742](http://www.uniprot.org/citations/11201742) [12089450](http://www.uniprot.org/citations/12089450) [15504325](http://www.uniprot.org/citations/15504325) [18411262](http://www.uniprot.org/citations/18411262) [22923615](http://www.uniprot.org/citations/22923615)). Functions as a receptor for the sialylated gangliosides GT1b and GM1 (PubMed: [18411262](http://www.uniprot.org/citations/18411262)). Besides, functions as a receptor for chondroitin sulfate proteoglycans (PubMed: [22406547](http://www.uniprot.org/citations/22406547)). Can also bind heparin (PubMed: [22406547](http://www.uniprot.org/citations/22406547)). Intracellular signaling cascades are triggered via the coreceptor NGFR (By similarity). Signaling mediates activation of Rho and downstream reorganization of the actin cytoskeleton (PubMed: 22406547).

href="http://www.uniprot.org/citations/22325200" target="_blank">22325200). Mediates axonal growth inhibition (By similarity). Mediates axonal growth inhibition and plays a role in regulating axon regeneration and neuronal plasticity in the adult central nervous system (PubMed:11201742, PubMed:12089450, PubMed:15504325, PubMed:22923615). Plays a role in postnatal brain development (PubMed:27339102). Required for normal axon migration across the brain midline and normal formation of the corpus callosum (PubMed:27339102). Protects motoneurons against apoptosis; protection against apoptosis is probably mediated via interaction with MAG (PubMed:26335717). Acts in conjunction with RTN4 and LINGO1 in regulating neuronal precursor cell motility during cortical development (PubMed:20093372). 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).

Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor. Membrane raft {ECO:0000250|UniProtKB:Q9BZR6}. Cell projection, dendrite. Cell projection, axon. Perikaryon {ECO:0000250|UniProtKB:Q99M75}. Note=Detected along dendrites and axons, close to synapses, but clearly excluded from synapses

Tissue Location

Detected in embryonic hippocampus neurons (PubMed:22325200). Detected in brain (at protein level) (PubMed:15504325, PubMed:22406547). Detected in neurons in the neocortex, in hippocampus, dorsal thalamus, cerebellum granule cell layer and the mitral cell layer in the olfactory bulb (PubMed:15647357). Detected in brain, dorsal root ganglion and heart

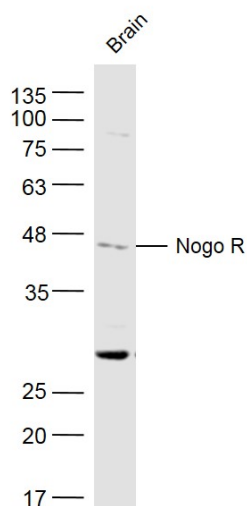
Nogo R Rabbit pAb - Protocols

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

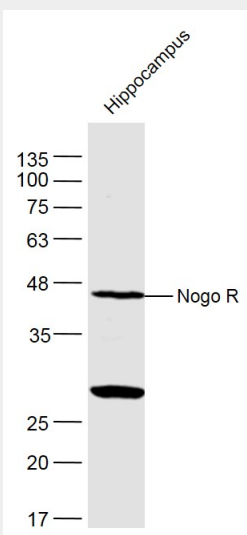
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Nogo R Rabbit pAb - Images

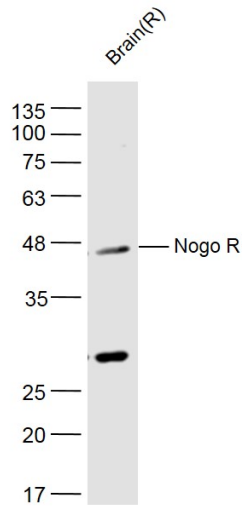




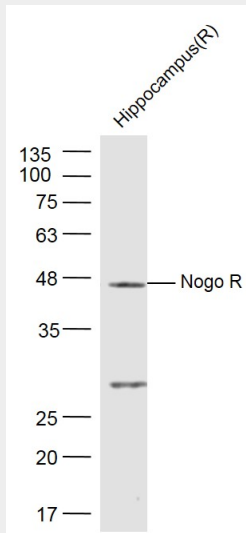
Sample: Brain (Mouse) Lysate at 40 ug Primary: Anti- Nogo R (AP94627) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD
Observed band size: 48 kD



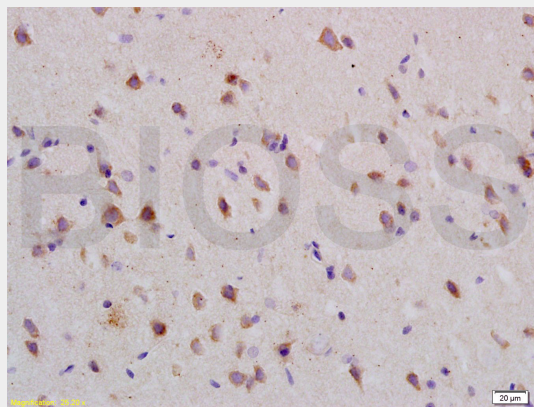
Sample: Hippocampus (Mouse) Lysate at 40 ug Primary: Anti- Nogo R (AP94627) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD
Observed band size: 48 kD



Sample: Brain (Rat) Lysate at 40 ug Primary: Anti- Nogo R (AP94627) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 48 kD



Sample: Hippocampus (Rat) Lysate at 40 ug Primary: Anti- Nogo R (AP94627) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 48 kD Observed band size: 48 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen

retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Nogo-R Polyclonal Antibody, Unconjugated(AP94627) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Nogo R Rabbit pAb - Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.