

# Nogo Receptor Rabbit mAb

Catalog # AP78222

## Product Information

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<b>Application</b>	WB, IP
<b>Primary Accession</b>	<a href="#">Q9BZR6</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human Nogo Receptor
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	50708

## Additional Information

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<b>Gene ID</b>	65078
<b>Other Names</b>	RTN4R
<b>Dilution</b>	WB~~1/500-1/1000 IP~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	RTN4R
<b>Synonyms</b>	NOGOR
<b>Function</b>	Receptor for RTN4, OMG and MAG (PubMed: <a href="#">12037567</a> , PubMed: <a href="#">12068310</a> , PubMed: <a href="#">12089450</a> , PubMed: <a href="#">12426574</a> , PubMed: <a href="#">12839991</a> , PubMed: <a href="#">16712417</a> , PubMed: <a href="#">18411262</a> , PubMed: <a href="#">19052207</a> ). Functions as a receptor for the sialylated gangliosides GT1b and GM1 (PubMed: <a href="#">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="#">12426574</a> ). Signaling mediates activation of Rho and downstream reorganization of the actin cytoskeleton (PubMed: <a href="#">16712417</a> , PubMed: <a href="#">22325200</a> ). Mediates axonal growth inhibition (PubMed: <a href="#">12839991</a> , PubMed: <a href="#">19052207</a> , PubMed: <a href="#">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:[22325200](#)).

#### Cellular Location

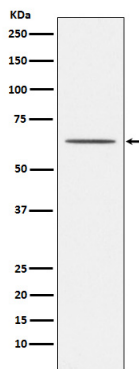
Cell membrane; Lipid- anchor, GPI-anchor. Membrane raft. Cell projection, dendrite {ECO:0000250|UniProtKB:Q99PI8}. Cell projection, axon {ECO:0000250|UniProtKB:Q99PI8}. Perikaryon {ECO:0000250|UniProtKB:Q99M75}. Note=Detected along dendrites and axons, close to synapses, but clearly excluded from synapses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

## Images

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