

Product datasheet

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ARG43078 anti-Nogo Receptor antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Nogo Receptor

Tested Reactivity Hu, Ms

Tested Application IP, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Nogo Receptor

Species Human

Immunogen Synthetic peptide derived from Human Nogo Receptor.

Conjugation Un-conjugated

Alternate Names Nogo-66 receptor; NGR; Reticulon-4 receptor; Nogo receptor; NOGOR; NgR

Application Instructions

Application table	Application	Dilution
	IP	1:50
	WB	1:1000 - 1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HepG2	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol

RTN4R

Gene Full Name reticulon 4 receptor

Background This gene encodes the receptor for reticulon 4, oligodendrocyte myelin glycoprotein and myelin-

associated glycoprotein. This receptor mediates axonal growth inhibition and may play a role in regulating axonal regeneration and plasticity in the adult central nervous system. [provided by RefSeq,

Jul 2008]

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). [UniProt]

Calculated Mw 51 kDa

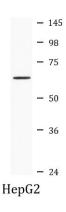
PTM N-glycosylated. O-glycosylated. Contains terminal sialic acid groups on its glycan chains. [UniProt]

Cellular Localization Cell membrane; Lipid-anchor, GPI-anchor. Membrane raft. Cell projection, dendrite. Cell projection,

axon. Perikaryon. Note=Detected along dendrites and axons, close to synapses, but clearly excluded

from synapses. [UniProt]

Images



ARG43078 anti-Nogo Receptor antibody WB image

Western blot: HepG2 cell lysate stained with ARG43078 anti-Nogo Receptor antibody.