NogoA (IN) antibody (pAb)

Rabbit Anti-Human/Mouse/Rat NogoA (IN)

Instruction Manual

Catalog Number | PK-AB718-4089
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Synonyms | NogoA Antibody: Neurite outgrowth inhibitor A, reticulon 4, RTN4
Description | NogoA is a member of a family of integral membrane proteins termed reticulons that are thought to be involved in numerous disorders including neurodegenerative diseases. Reticulon proteins are known to regulate many cellular processes and interact with multiple proteins and receptors such as BACE. NogoA was initially identified as a myelin-associated neurite outgrowth inhibitor. It is highly expressed in oligodendrocytes in the white matter of the CNS; blocking its activity with antibodies or other factors results in improved axon regrowth and functional recovery in experimental CNS lesion models. NogoA has also been suggested to play a role in neurodegenerative diseases such as Amyotrophic lateral sclerosis, in which case NogoA is found at elevated levels in postmortem muscular samples, and multiple sclerosis (MS), in which case autoantibodies to NogoA have been found in serum and cerebrospinal fluid in MS patients. Despite its predicted molecular weight, NogoA typically migrates at 180kDa in an SDS-PAGE. At least five isoforms of Nogo are known to exist; this antibody is specific for NogoA and NogoE.
Quantity | 100 µg
Source / Host | Rabbit
Immunogen | NogoA antibody was raised in rabbits against a 19 amino acid peptide from near the center of human NogoA.
Purification Method | Affinity chromatography purified via peptide column.
Clone / IgG Subtype | Polyclonal antibody
Species Reactivity | Human, Mouse, Rat
Specificity | At least five isoforms of Nogo are known to exist; this antibody is specific for NogoA and NogoE.
Formulation | Antibody is supplied in PBS containing 0.02% sodium azide.
Reconstitution | During shipment, small volumes of antibody will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µl or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container’s cap.
Storage & Stability | Antibody can be stored at 4ºC for three months and at -720ºC for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Applications | E, WB, IHC, IF  Note: Antibody might be suitable for other applications not tested so far. Optimal concentrations for each application have to be determined individually.
NogoA antibody can be used for detection of NogoA by Western blot at 0.5 - 1 µg/mL. Despite its predicted molecular weight, NogoA typically migrates at 180 kDa in an SDS-PAGE. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.
Images | Available upon request.
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Related Products | Cat.No. PK-AB718-4089P; NogoA Peptide
Cat.No. PK-AB718-1303; Human Brain Tissue Lysate

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