


Product datasheet

Anti-Nogo A antibody ab107522

1 Image

Overview

<b>Product name</b>	Anti-Nogo A antibody
<b>Description</b>	Goat polyclonal to Nogo A
<b>Host species</b>	Goat
<b>Specificity</b>	ab107522 is expected to recognize reported isoform A (NP_065393.1) and isoform E (NP_997404.1).
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Dog 
<b>Immunogen</b>	Synthetic peptide: C-KAQMTEKNTSTKTS , corresponding to internal sequence amino acids 501-515 of Human Nogo A (NP_065393.1; NP_997404.1).  <a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	Human cortex

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris buffered saline, pH 7.3
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab107522** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 2 - 6 µg/ml. Recommended: Steamed antigen retrieval with citrate buffer pH 6.

## Target

### Function

Developmental neurite growth regulatory factor with a role as a negative regulator of axon-axon adhesion and growth, and as a facilitator of neurite branching. Regulates neurite fasciculation, branching and extension in the developing nervous system. Involved in down-regulation of growth, stabilization of wiring and restriction of plasticity in the adult CNS. Regulates the radial migration of cortical neurons via an RTN4R-LINGO1 containing receptor complex (By similarity). Isoform 2 reduces the anti-apoptotic activity of Bcl-xl and Bcl-2. This is likely consecutive to their change in subcellular location, from the mitochondria to the endoplasmic reticulum, after binding and sequestration. Isoform 2 and isoform 3 inhibit BACE1 activity and amyloid precursor protein processing.

### Tissue specificity

Isoform 1 is specifically expressed in brain and testis and weakly in heart and skeletal muscle. Isoform 2 is widely expressed except for the liver. Isoform 3 is expressed in brain, skeletal muscle and adipocytes. Isoform 4 is testis-specific.

### Sequence similarities

Contains 1 reticulon domain.

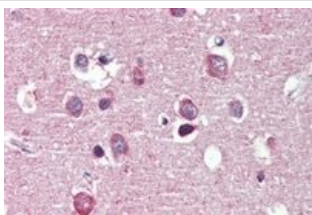
### Domain

Three regions, residues 59-172, 544-725 and the loop 66 amino acids, between the two transmembrane domains, known as Nogo-66 loop, appear to be responsible for the inhibitory effect on neurite outgrowth and the spreading of neurons. This Nogo-66 loop, mediates also the binding of RTN4 to its receptor.

### Cellular localization

Endoplasmic reticulum membrane. Anchored to the membrane of the endoplasmic reticulum through 2 putative transmembrane domains.

## Images



Cytoplasm staining of Nogo A in neuronal cell bodies and in axons of paraffin embedded Human cortex by Immunohistochemistry, using ab107522 at a concentration of 2.5 µg/ml. Steamed antigen retrieval with citrate buffer pH 6 and AP staining were used.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Nogo A antibody (ab107522)

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