


Product datasheet

Anti-Nogo A antibody ab107522

1 Image

Overview

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

Properties

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

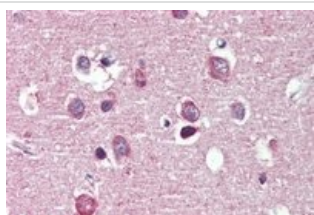
Domain

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) - Anti-Nogo A antibody (ab107522)

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