

Product datasheet

Anti-Nogo antibody [EPR12266] ab177953

Recombinant RabMAb

2 Images

Overview

Product name	Anti-Nogo antibody [EPR12266]
Description	Rabbit monoclonal [EPR12266] to Nogo
Host species	Rabbit
Tested applications	Suitable for: WB, Flow Cyt Unsuitable for: ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human Nogo aa 1150 to the C-terminus (Cysteine residue). The exact sequence is proprietary. Database link: Q9NQC3
Positive control	U87-MG, SH-SY5Y, and HeLa cell lysates; U87-MG cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20

Constituents: 0.35% Sodium citrate, 0.17% Sodium chloride, 0.03% EDTA, 59% PBS, 40% Glycerol, 0.05% BSA

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12266
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab177953** 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
WB		1/1000 - 1/5000. Detects a band of approximately 40-190 kDa (predicted molecular weight: 129 kDa).
Flow Cyt		1/100 - 1/500. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for ICC/IF, IHC-P or IP.

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.

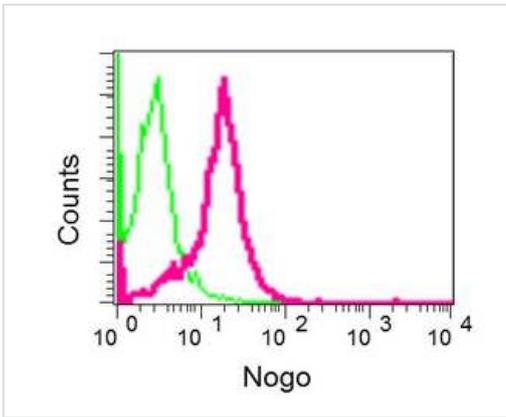
Tissue specificity Isoform 1 is specifically expressed in brain and testis and weakly in heart and skeletal muscle. Isoform 2 is widely expressed except for the liver. Isoform 3 is expressed in brain, skeletal muscle and adipocytes. Isoform 4 is testis-specific.

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.

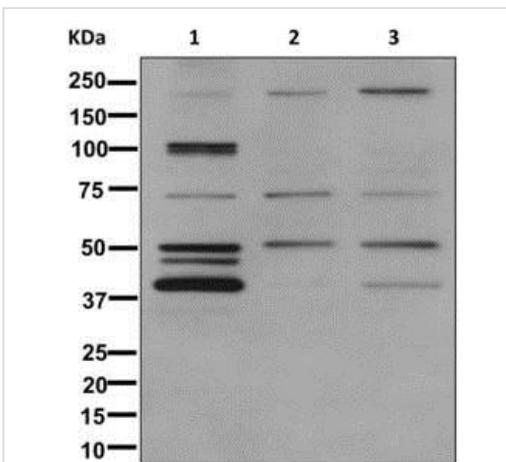
Cellular localization Endoplasmic reticulum membrane. Anchored to the membrane of the endoplasmic reticulum through 2 putative transmembrane domains.

Images



Flow Cytometry - Anti-Nogo antibody [EPR12266] (ab177953)

Flow Cytometric analysis of permeabilized U87-MG cells labeling Nogo with ab177953 at 1/100 dilution (red) or a rabbit IgG (negative) (green).



Western blot - Anti-Nogo antibody [EPR12266] (ab177953)

All lanes : Anti-Nogo antibody [EPR12266] (ab177953) at 1/1000 dilution

Lane 1 : U87-MG cell lysate

Lane 2 : SH-SY5Y cell lysate

Lane 3 : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 129 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

-
- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors