

Product datasheet

Anti-Nogo antibody ab32298

★★★★☆ 12 Abreviews 1 References 4 图像

概述

产品名称	Anti-Nogo抗体
描述	兔多克隆抗体to Nogo
宿主	Rabbit
特异性	ab32298 reacts with Nogo isoforms A and B (Foccen M1), and is predicted to react with the additional isoforms Nogo C and Foccen M2, due to sequence homology.
经测试应用	适用于: IHC-FoFr, ICC, ICC/IF, WB, IHC-Fr
种属反应性	与反应: Mouse, Rat, Human 预测可用于: Cow, Dog, Pig
免疫原	Synthetic peptide conjugated to KLH derived from within residues 1100 to the C-terminus of Rat Nogo A. 参阅Abcam的专有抗源政策 (Peptide available as ab32297 .)
阳性对照	This antibody gave a positive signal in the following tissue lysates: Rat Hippocampus, Mouse Hippocampus.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS. pH 7.4
纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab32298** in the following tested applications.

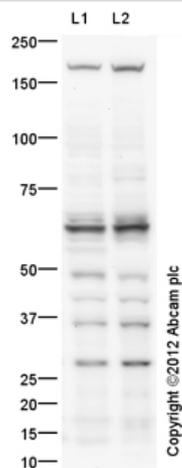
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
IHC-FoFr	★★★★☆	1/300.
ICC	★★★★★	Use at an assay dependent concentration.
ICC/IF	★★★★★	1/200.
WB	★★★★☆	Use a concentration of 1 µg/ml. Detects a band of approximately 170,45 kDa (predicted molecular weight: 126,39 kDa). Can be blocked with Rat Nogo peptide (ab32297) .
IHC-Fr	★★★★☆	1/200.

靶标

功能	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.
组织特异性	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.
序列相似性	Contains 1 reticulon domain.
结构域	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.
细胞定位	Endoplasmic reticulum membrane. Anchored to the membrane of the endoplasmic reticulum through 2 putative transmembrane domains.

图片



Western blot - Anti-Nogo antibody (ab32298)

All lanes : Anti-Nogo antibody (ab32298) at 1 µg/ml

Lane 1 : Rat Hippocampus Tissue Lysate

Lane 2 : Mouse Hippocampus Tissue Lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

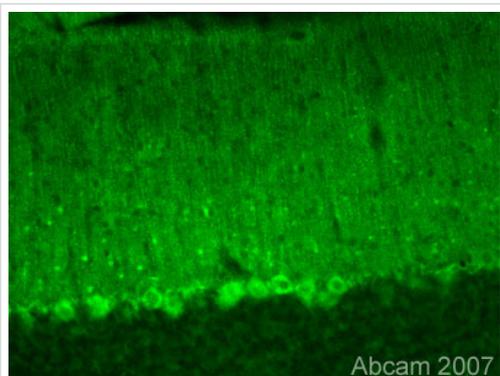
Performed under reducing conditions.

Predicted band size: 126,39 kDa

Observed band size: 170,45 kDa

Additional bands at: 28 kDa, 37 kDa, 50 kDa, 65 kDa. We are unsure as to the identity of these extra bands.

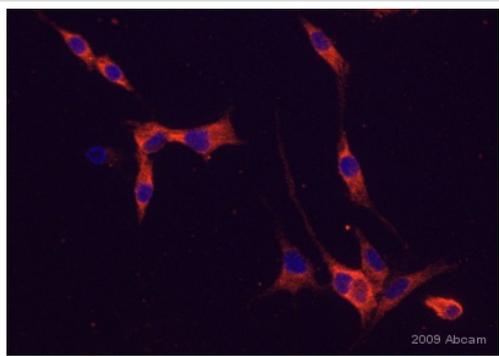
Exposure time: 12 minutes



Immunohistochemistry (PFA perfusion fixed frozen sections) - Anti-Nogo antibody (ab32298)

This image is courtesy of Sophie Pezet, CNRS, Paris, France

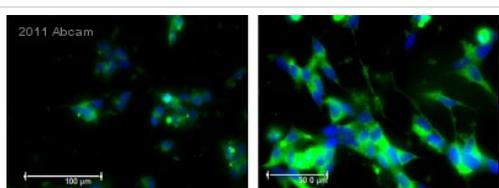
Immunofluorescent staining for Nogo in rat brain cerebellum using Rabbit polyclonal to Nogo (ab32298; 1/300 incubated for 18h at RT); immunoreactivity was detected in most brain areas. The staining is quite diffuse on cell bodies, axons and dendrites. The picture was acquired using X20 objective. Protocol details: Rats were intracardially perfused with 4% paraformaldehyde. Whole brain tissue was post-fixed overnight in the same fixative, and cryoprotected in 20% sucrose and frozen in OCT. 30µm coronal sections were cut by cyrostat for use in fre floating IHC. Secondary antibody Alexa fluor 488 1/1000 was incubated for 2 hours at room temperature.



Immunocytochemistry/ Immunofluorescence - Anti-Nogo antibody (ab32298)

This image is courtesy of Carl Hobbs, King's College London, United Kingdom

Immunocytochemistry staining for Nogo in Cor1 neural stem cells from mouse using Rabbit polyclonal to Nogo (ab32298; 1/200 incubated for 1h at RT); Immunoreactivity was detected in cell-body as well as in neurites.



Immunocytochemistry/ Immunofluorescence - Anti-Nogo antibody (ab32298)

Image courtesy of an anonymous Abreview.

ab32298 staining Nogo in human SH-SY5Y cells by Immunocytochemistry/ Immunofluorescence.

Cells were fixed in paraformaldehyde, blocked with 10% serum for 20 minutes at 24°C, then incubated with ab32298 at a 1/200 dilution for 16 hours at 4°C. The secondary used was an Alexa-Fluor 488 conjugated donkey anti-rabbit polyclonal used at a 1/1000 dilution. Counterstained with Hoechst 33258 (blue).

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