

Anti-NrCAM antibody [EPR15654] - Neuronal Marker ab191418

Recombinant RabMAb

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Overview

Product name	Anti-NrCAM antibody [EPR15654] - Neuronal Marker
Description	Rabbit monoclonal [EPR15654] to NrCAM - Neuronal Marker
Host species	Rabbit
Specificity	Not suitable for mouse and rat IHC-P.
Tested applications	Suitable for: IHC-P, IP, WB
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human glioma and forebrain lysates. IP: Human glioma lysate. IHC-P: Human cerebrum tissue.
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>

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR15654
Isotype	IgG

Applications

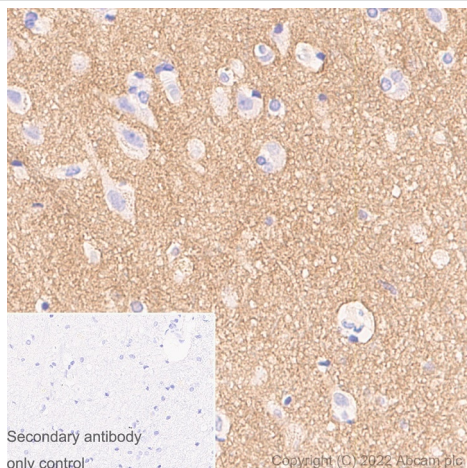
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab191418 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/30.
WB		1/10000 - 1/50000. Detects a band of approximately 144 kDa (predicted molecular weight: 144 kDa).

Target

Function	Cell adhesion, ankyrin-binding protein involved in neuron-neuron adhesion. May play a role in the molecular assembly of the nodes of Ranvier.
Tissue specificity	Detected in all the examined tissues. In the brain it was detected in the amygdala, caudate nucleus, corpus callosum, hippocampus, hypothalamus, substantia nigra, subthalamic nucleus and thalamus.
Sequence similarities	Belongs to the immunoglobulin superfamily. L1/neurofascin/NgCAM family. Contains 5 fibronectin type-III domains. Contains 6 Ig-like C2-type (immunoglobulin-like) domains.
Cellular localization	Cell membrane.

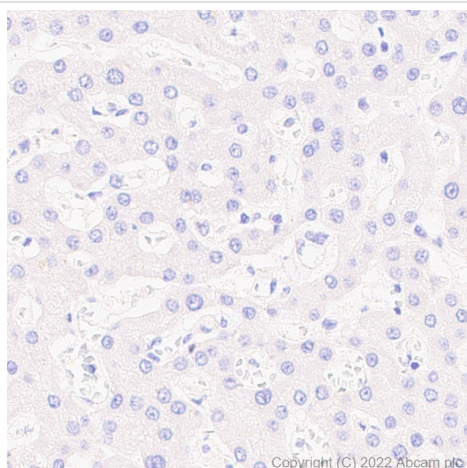
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NrCAM antibody [EPR15654] - Neuronal Marker (ab191418)

Immunohistochemical analysis of paraffin-embedded human cerebrum tissue labelling NrCAM with ab191418 at 1/500 dilution (0.89 µg/ml) followed by LeicaDS9800 (Bond™ Polymer Refine Detection) secondary antibody at a ready to use concentration. Positive staining on human cerebrum. The section was incubated with ab191418 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

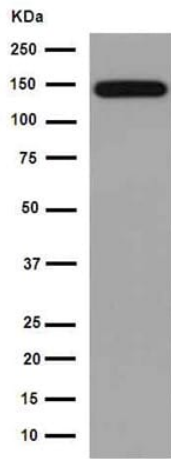
Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NrCAM antibody [EPR15654] - Neuronal Marker (ab191418)

Immunohistochemical analysis of paraffin-embedded human liver tissue labelling NrCAM with ab191418 at 1/500 dilution (0.89 µg/ml) followed by LeicaDS9800 (Bond™ Polymer Refine Detection) secondary antibody at a ready to use concentration. **Negative control:** no staining on human liver. The section was incubated with ab191418 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



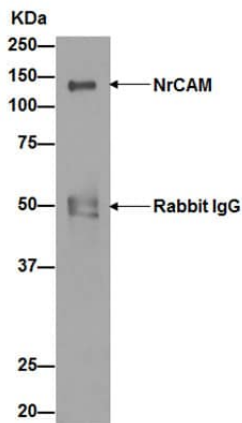
Western blot - Anti-NrCAM antibody [EPR15654] - Neuronal Marker (ab191418)

Anti-NrCAM antibody [EPR15654] - Neuronal Marker (ab191418)
at 1/50000 dilution + Human glioma lysate at 20 µg

Secondary

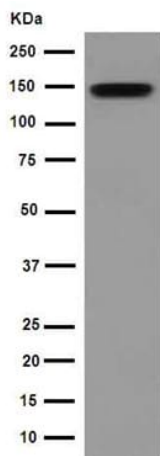
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 144 kDa



Immunoprecipitation - Anti-NrCAM antibody [EPR15654] - Neuronal Marker (ab191418)

Western blot analysis of immunoprecipitation pellet from Human glioma lysate immunoprecipitated using ab191418 at 1/30 dilution.
Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution.



Western blot - Anti-NrCAM antibody [EPR15654] - Neuronal Marker (ab191418)

Anti-NrCAM antibody [EPR15654] - Neuronal Marker (ab191418)
at 1/10000 dilution + Human forebrain lysate at 10 µg

Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 144 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-NrCAM antibody [EPR15654] - Neuronal Marker
(ab191418)

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