abcam

Product datasheet

Anti-160 kD Neurofilament Medium antibody ab9034

1 Abreviews 14 References 2 Images

Overview

Product name	Anti-160 kD Neurofilament Medium antibody
Description	Rabbit polyclonal to 160 kD Neurofilament Medium
Host species	Rabbit
Specificity	Recognizes the evolutionarily conserved extreme C-terminal region of the medium neurofilament subunit (~145-170 kDa).
Tested applications	**Suitable for:** IHC-FrFl, WB
Species reactivity	**Reacts with:** Mouse, Rat, Pig **Predicted to work with:** Cat, Bird, Reptile
Immunogen	Recombinant fragment corresponding to Rat 160 kD Neurofilament Medium (C terminal). Database link: P12839
Positive control	IHC-FrFl: Rat cerebellum WB: Mouse, Rat and Pig brain and spinal cord tissue lysates
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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 or -80°C. Avoid freeze / thaw cycle.
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab9034 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-FrFl		1/2000.
WB		1/5000.

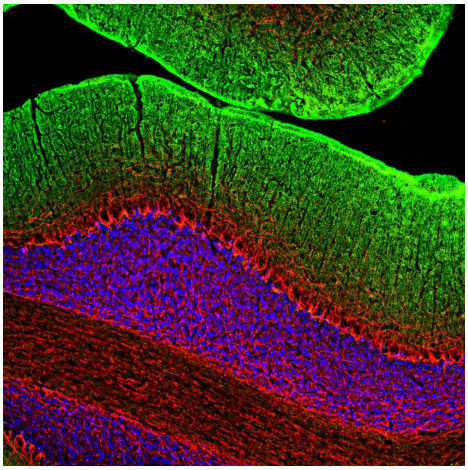
Target

Function Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber.

Sequence similarities Belongs to the intermediate filament family.

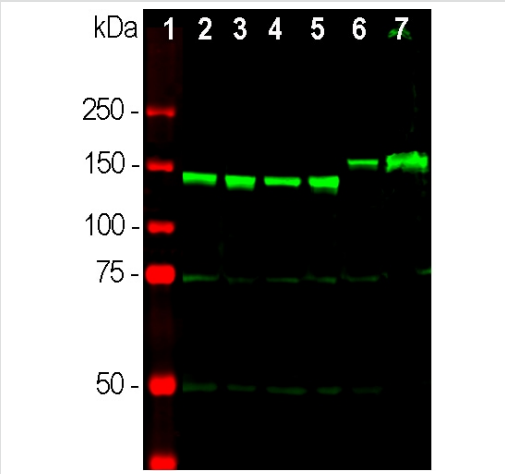
Post-translational modifications There are a number of repeats of the tripeptide K-S-P, NFM is phosphorylated on a number of the serines in this motif. It is thought that phosphorylation of NFM results in the formation of interfilament cross bridges that are important in the maintenance of axonal caliber.
Phosphorylation seems to play a major role in the functioning of the larger neurofilament polypeptides (NF-M and NF-H), the levels of phosphorylation being altered developmentally and coincidentally with a change in the neurofilament function.
Phosphorylated in the head and rod regions by the PKC kinase PKN1, leading to the inhibition of polymerization.

Images



Immunohistochemistry - Free Floating - Anti-160 kD Neurofilament Medium antibody - Neuronal Marker (ab9034)

Immunohistochemistry - Free Floating analysis of rat cerebellum section labeling 160 kD Neurofilament Medium with ab9034 at 1/2000 diution (red) and and costained with mouse mAb to GAP43 at 1/2000 diution (green). Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µM, and free-floating sections were stained with the above antibodies. ab9034 strongly labels neuronal processes throughout the cerebellum, while the GAP43 antibody stains predominantly synaptic regions in the molecular layer.



Western blot - Anti-160 kD Neurofilament Medium antibody - Neuronal Marker (ab9034)

All lanes : Anti-160 kD Neurofilament Medium antibody (ab9034) at 1/2000 dilution

Lane 1 : Protein standard
Lane 2 : Rat brain tissue lysate
Lane 3 : Rat spinal cord tissue lysate
Lane 4 : Mouse brain tissue lysate
Lane 5 : Mouse spinal cord tissue lysate
Lane 6 : Pig brain tissue lysate
Lane 7 : Pig spinal cord tissue lysate

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