Overview

Product name: Anti-160 kD Neurofilament Medium antibody

Description: Goat polyclonal to 160 kD Neurofilament Medium

Host species: Goat

Tested applications: Suitable for: IHC-P, WB

Species reactivity: Reacts with: Mouse, Human

Predicted to work with: Rat, Horse, Chicken, Hamster, Cow, Dog, Pig, Monkey, Gorilla

Immunogen: Synthetic peptide corresponding to Human 160 kD Neurofilament Medium aa 250-350 (internal sequence) (Cysteine residue).

Database link: P07197


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 buffer: pH: 7.30
Preservative: 0.02% Sodium azide
Constituents: 0.5% BSA, 99% Tris buffered saline

Purity: Immunogen affinity purified

Clonality: Polyclonal

Isotype: IgG
The Abpromise guarantee

Our Abpromise guarantee covers the use of ab195658 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 5 µg/ml.</td>
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<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 0.03 - 0.1 µg/ml. Predicted molecular weight: 102 kDa.</td>
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</table>

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

Anti-160 kD Neurofilament Medium antibody (ab195658) at 0.03 µg/ml + mouse brain lysate in RIPA buffer at 35 µg

Predicted band size: 102 kDa
Immunohistochemical analysis of formalin/PFA-fixed paraffin-embedded human brain cortex sections labeling 160 kD Neurofilament Medium with ab195658 at 5 µg/mL.

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

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