abcam

Product datasheet

# Anti-160 kD Neurofilament Medium antibody ab195658

1 References 2 Images

## 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<br>**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).<br>Database link: **P07197**<br>Run BLAST with Run BLAST with |
| **Positive control** | Human brain cortex tissue. Mouse brain lysate. |
| **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.<br>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 long term. Avoid freeze / thaw cycle. |
| **Storage buffer** | pH: 7.30<br>Preservative: 0.02% Sodium azide<br>Constituents: 0.5% BSA, 99% Tris buffered saline |
| **Purity** | Immunogen affinity purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

**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.

| Application | Abreviews | Notes |
|---|---|---|
| **IHC-P** | | Use a concentration of 5 µg/ml. |
| **WB** | | Use a concentration of 0.03 - 0.1 µg/ml. Predicted molecular weight: 102 kDa. |

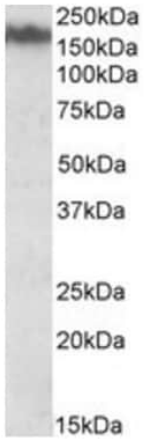
## Target

**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.

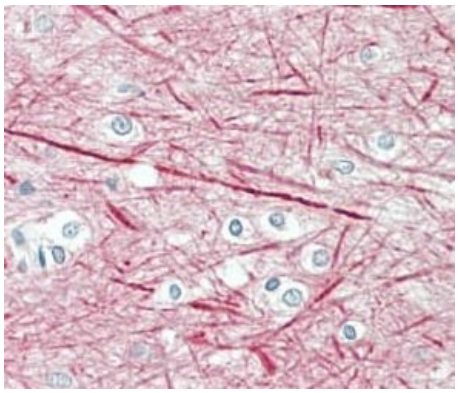
## Images




Western blot - Anti-160 kD Neurofilament Medium antibody (ab195658)

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-160 kD Neurofilament Medium antibody (ab195658)

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



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