abcam

Product datasheet

Anti-160 kD Neurofilament Medium antibody ab72998

2 References 1 Image

Overview

Product name	Anti-160 kD Neurofilament Medium antibody
Description	Chicken polyclonal to 160 kD Neurofilament Medium
Host species	Chicken
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Rat
Immunogen	Recombinant fusion protein containing the extreme C-terminus of rat 160 kD Neurofilament Medium protein expressed in and purified from E. coli.
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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.065% Sodium azide
Purity	IgY fraction
Clonality	Polyclonal
Isotype	IgY

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab72998 in the following tested applications.

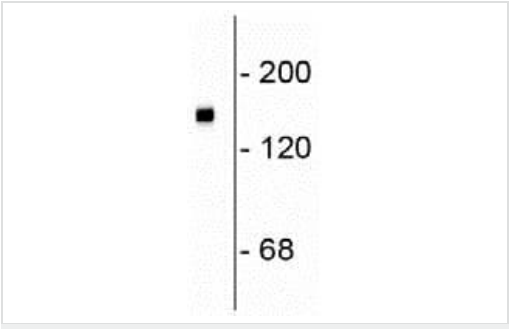
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000. Detects a band of approximately 145 kDa (predicted molecular weight: 96 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 (ab72998)

Anti-160 kD Neurofilament Medium antibody (ab72998) at 1/5000 dilution + rat cerebral cortex lysate

Predicted band size: 96 kDa
Observed band size: 145 kDa

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