

Product Datasheet

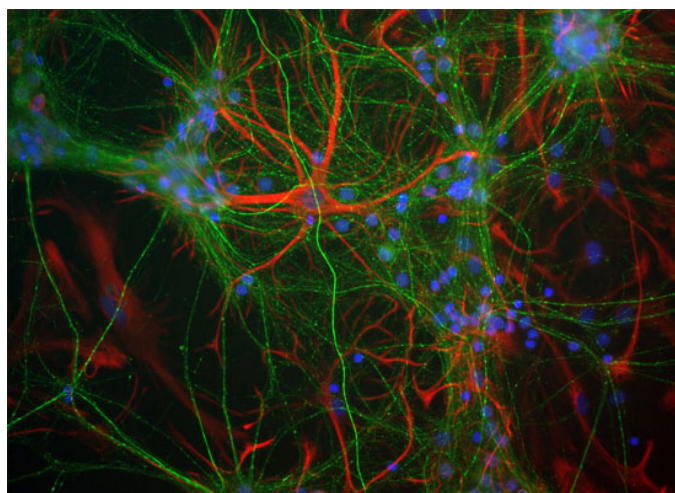
Chickens make *better* antibodies.

Anti-NFM (Neurofilament Medium Chain) Antibody

Overview

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|---------------------------|--|
| Catalog # | NFM |
| Concentration | 2 mg/mL |
| Host Species | Chicken Polyclonal |
| Format | IgY Fraction |
| Buffer | Phosphate-buffered (10 mM) isotonic (0.9%, w/v) saline ("PBS" pH 7.2) with bovine serum albumin (BSA, 0.5%) added to prevent absorption to the plastic and sodium azide (0.02%, w/v) added as a preservative |
| Applications | IHC 1:1000-1:2000 ICC 1:1000-1:2000 WB 1:1000-1:2000 |
| Species Reactivity | Human, Mouse, and Rat |
| Immunogen | Recombinant construct containing the C-terminus of the human sequence expressed in <i>Escherichia coli</i> |
| Molecular Weight | 150 kDa |
| Cite this Antibody | Aves Labs Cat# NFM, RRID: AB_2313554 |

Images



Immunocytochemical staining of NF-M immunoreactivity (green) and Glial Fibrillary Acidic Protein (GFAP, red) in a culture of mouse cortical neurons. The chicken anti-NFM immunostaining was performed using a 1:2000 dilution, and the GFAP immunostaining was performed using a 1:5000 dilution. Photomicrographs from Dr. Gerry Shaw, EnCor Biotechnology, Inc.

Details

| | |
|------------------------------|---|
| Target Description | Human Neurofilament Medium Chain (NFM) is a 102,448 dalton protein (916 amino acids) expressed in CNS and PNS neurons. This cytoskeletal protein is normally phosphorylated in vivo and its extent of phosphorylation correlates with different states of axonal growth and stabilization. These observations have led to the hypothesis that the NFM protein cross-links adjacent neurofilament strands and contributes to the structural integrity of the axon. |
| Purification Method | Chickens were immunized with NFM protein was purified from bovine spinal cords. After repeated injections into the hens, immune eggs were collected, and the IgY fractions were purified from the yolks. |
| Quality Control Tests | Quality assurance analysis was performed using immunohistochemistry (at a dilution of 1:5000) using fluorescein-labeled goat anti-chicken IgY (1:500 dilution, Aves Labs Cat.# F-1005) as the secondary reagent. |
| Storage | Store at 4°C in the dark. Under these conditions, the antibodies should have a shelf life of at least twelve months, provided they remain sterile. For longer term storage, aliquot and freeze to avoid freeze-thaw of the antibody. |

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