

Product Datasheet

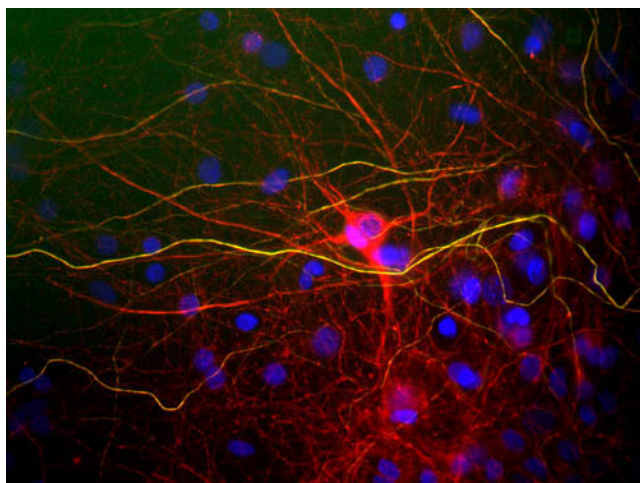
Chickens make *better* antibodies.

Anti-NFL (Neurofilament Light Chain) Antibody

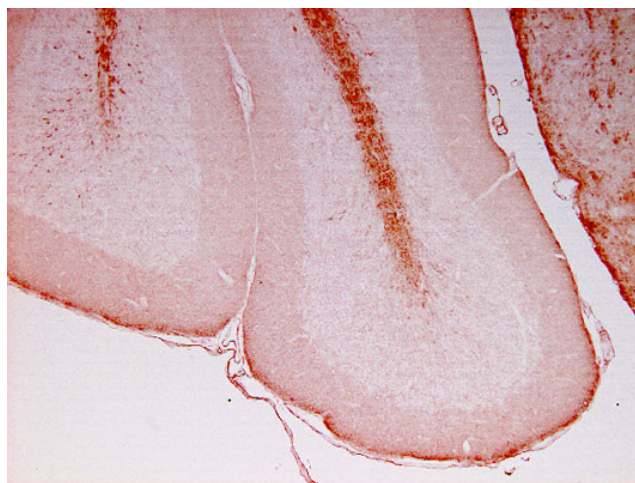
Overview

Catalog #	NFL
Concentration	300 µg/mL
Host Species	Chicken Polyclonal
Format	Affinity-Purified IgY
Buffer	Phosphate-buffered (10 mM) isotonic (0.9%, w/v) saline ("PBS," pH 7.2) with 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	Synthetic peptides
Molecular Weight	70 kDa
Cite this Antibody	Aves Labs Cat# NFL, RRID: AB_2313553

Images



Immunocytochemical staining of mouse brain cortical neurons in culture. NFL immunoreactivity is red and yellow. Blue staining is DAPI nuclear staining. Anti-NFL (1:1000 dilution). Dr. Felix Eckenstein, University of Vermont.



Immunohistochemical staining of a paraffin-embedded section through mouse cerebellum. Anti-NFL immunoreactivity (Aves Labs, 1:500 dilution) was detected using HRP-labeled goat anti-chicken IgY (Aves Cat.No. H-1004).

Details

Target Description	Human Neurofilament Light Chain (NFL) is a 61,516 dalton protein (543 amino acids) expressed in the axons of CNS and PNS neurons, where it plays a role in maintaining the structural integrity of the axon. Mutations of the NFL gene product are responsible for some forms of autosomal dominant Charcot-Marie-Tooth neuropathies in humans (i.e., CMT type 1F).
Purification Method	Chickens were immunized with three synthetic peptide / keyhole limpet hemocyanin (KLH) conjugates. These synthetic peptides corresponded to different regions of the NF-L gene product, but are shared between the human (P07196, NCBI) and mouse (P08551, NCBI) protein sequences. After repeated injections, immune eggs were collected, and the IgY fractions were purified from the yolks. These IgY fractions were then affinity-purified using a peptide column, and the concentrations of the eluates adjusted to 300 µg/mL. Finally, equal volumes of each of the three affinity purified anti-peptide antibodies were mixed, and the preparation was filter-sterilized.
Quality Control Tests	Quality assurance analysis was performed using immunohistochemistry (at a dilution of 1:2000) 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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