

## Chicken polyclonal antibody to Neurofilament Medium

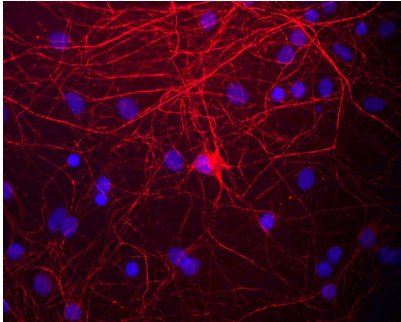
<b>Catalogue No.:</b>	C-1393-50
<b>Description:</b>	Neurofilaments are composed of three intermediate filament proteins: light (~68 kDa), medium (~160 kDa) and heavy (~200 kDa), which are involved in the maintenance of the neuronal caliber. Neurofilament medium runs on SDS-PAGE gels in the range 145-170 kDa, with some variation in different species.
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	50 $\mu$ L
<b>Antigen:</b>	Recombinant fusion protein containing the extreme C-terminal segment of rat NF-M.
<b>Isotype:</b>	IgY
<b>Other Names:</b>	Neurofilament medium polypeptide; NF-M; 160 kDa neurofilament protein; Neurofilament 3; Neurofilament triplet M protein; Nefm; Nef3; Nfm;
<b>Accession:</b>	P12839 NFM_RAT;
<b>Produced in:</b>	Chicken
<b>Applications:</b>	Western Blotting (WB), Immunocytochemistry (ICC) and Immunohistochemistry (IHC). A dilution of 1:5,000 - 1:10,000 is recommended for WB. A dilution of 1:1,000 - 1:2,000 is recommended for ICC and IHC. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
<b>Specificity:</b>	Specifically recognizes the medium neurofilament subunit NF-L in WB. Band appears at ~145 kDa in WB from rodent and ~160 kDa for human and bovine WB.
<b>Antibody Against:</b>	Neurofilament Medium
<b>Cross-reactivity:</b>	Hu, Rat, Ms, Fel, Chk. Predicted to react with other mammalian tissues due to sequence homology.
<b>Form:</b>	Lyophilised with 5% trehalose
<b>Appearance:</b>	White powder
<b>Reconstitution:</b>	Reconstitute in sterile distilled water. Centrifuge to remove any insoluble material.
<b>Storage:</b>	After reconstitution of lyophilised antibody, aliquot and store at -20C for a higher stability. Avoid freeze-thaw cycles.
<b>Expiry Date:</b>	12 months after purchase
<b>Specific References:</b>	<ol style="list-style-type: none"><li>1. Jarjour A.A. et al (2007) Maintenance of axo-oligodendroglial paranodal junctions requires DCC and netrin-1. <i>J Neurosci.</i> 2008 Oct 22;28(43):11003-14.</li><li>2. Rangaraju S. et al (2009) Molecular architecture of myelinated peripheral nerves is supported by calorie restriction with aging. <i>Aging Cell.</i> 2009 Apr;8(2):178-91.</li><li>3. Pearse D.D. et al (2007) Transplantation of Schwann cells and/or olfactory ensheathing glia into the contused spinal cord: Survival, migration, axon association, and functional recovery. <i>Glia.</i> 2007 Jul;55(9):976-1000.</li></ol>

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FOR RESEARCH USE ONLY

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4. Shaw G. et al (2004) Characterization of the bovine neurofilament NF-M protein and cDNA sequence, and identification of in vitro and in vivo calpain cleavage sites. *Biochem Biophys Res Commun.* 2004 Dec 10;325(2):619-25.



View of mixed neuron/glia cultures stained with Chicken polyclonal antibody to Neurofilament Medium C-1393-50 (red). The Neurofilament Medium (NF-M) protein is assembled into neurofilaments which are found throughout the axons, dendrites and perikarya of these cells.

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