



Chicken polyclonal antibody to Neurofilament Medium

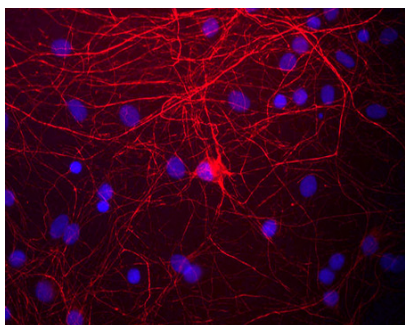
Catalogue No.:	C-1393-50
Description:	Neurofilaments are composed of three intermediate filament proteins: light (~68 kDa), medium (~160 kDa) and heavy (~200 kDa), which are involved in the maintenance of the neuronal caliber. Neurofilament medium runs on SDS-PAGE gels in the range 145-170 kDa, with some variation in different species.
Batch No.:	See product label
Unit size:	50 µl
Antigen:	Recombinant fusion protein containing the extreme C-terminal segment of rat NF-M.
Isotype:	IgY
Other Names:	Neurofilament medium polypeptide; NF-M; 160 kDa neurofilament protein; Neurofilament 3; Neurofilament triplet M protein; Nefm; Nef3; Nfm;
Accession:	P12839 NFM_RAT;
Produced in:	Chicken
Applications:	Western Blotting (WB) and Immunocytochemistry (IC). 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 IC. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	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.
Antibody Against:	Neurofilament Medium
Cross-reactivity:	Hu, Rat, Ms, Fel, Chk. Predicted to react with other mammalian tissues due to sequence homology.
Form:	Lyophilised with 5% trehalose
Appearance:	White powder
Reconstitution:	Reconstitute in sterile distilled water. Centrifuge to remove any insoluble material.
Storage:	After reconstitution of lyophilised antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.
Expiry Date:	12 months after purchase
Specific References:	<ol style="list-style-type: none">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):11003-14.2. 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):178-91.3. 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):976-1000.4. Shaw G. et al (2004) Characterization of the bovine neurofilament NF-M protein and cDNA

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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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