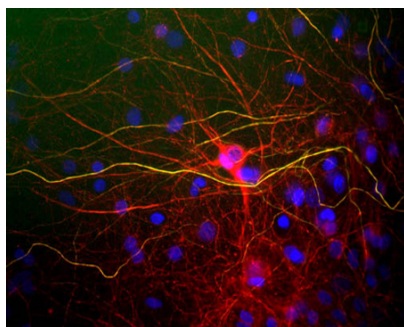


Chicken polyclonal antibody to Neurofilament Light

Catalogue No.:	C-1390-50
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 light (NF68 or NF-L) is the most abundant of the three proteins.
Batch No.:	See product label
Unit size:	50 µl
Antigen:	Purified porcine NF-L from spinal cord and recombinant NF-L.
Isotype:	IgY
Other Names:	NF-L; NF68; NEFL; Neurofilament light polypeptide; NFL;
Accession:	P02547 NFL_PIG; P07196 NFL_HUMAN;
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 - 1:5,000 is recommended for IC. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	The specificity of this antibody has been confirmed by IC.
Antibody Against:	Neurofilament Light
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:	1. Rangaraju S. et al (2009) Molecular architecture of myelinated peripheral nerves is supported by calorie restriction with aging. Aging Cell. 2009 Apr;8(2):178-91.



View of mixed neuron/glia cultures stained with Chicken polyclonal antibody to Neurofilament Light C-1390-50 (red) and Rabbit polyclonal antibody to Neurofilament Heavy, phosphorylated R-1388-50 (green). The Neurofilament Light (NF-L) protein is assembled into neurofilaments which are found throughout the axons, dendrites and perikarya of these cells. In contrast the phosphorylated Neurofilament Heavy (NF-H) has a much more restricted expression pattern, being found only in developed axonal neurofilaments. Since both proteins are found in neurofilaments, the red and green patterns overlap, so that neurofilaments containing NF-L and phosphorylated NF-H appear yellowish. In contrast neurofilaments containing only NF-L appear red.

FOR RESEARCH USE ONLY