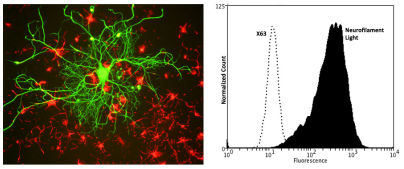
Mouse monoclonal antibody to Neurofilament Light [DA2]

Catalogue No.:	M-1391-50
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 uL
Antigen:	A preparation of enzymatically dephosphorylated pig neurofilaments including NF-L, NF-M and NF-H. Screening was by ELISA on the immungen followed by immunofluorescence microscopy. The epitope for this antibody is not in the N-terminus but its exact location is not known. It is thought to be somewhere within the central alpha helical "rod" region of the molecule.
Antibody Type:	Monoclonal
Isotype:	IgG1
Clone:	DA2
Other Names:	NF-L; NF68; NEFL; Neurofilament light polypeptide; NFL;
Accession:	P02547 NFL_PIG; P07196 NFL_HUMAN;
Produced in:	Mouse
Applications:	Western Blotting (WB), Immunocytochemistry (IC), Immunohistochemistry (IH) and Flow Cytometry (2 ug per 10^6 cells). A dilution of 1:10,000 - 1:20,000 is recommended for WB. A dilution of 1:100 - 1:500 is recommended for IC and IH. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	Specifically recognizes the light neurofilament subunit NF-L (~68 kDa) in WB.
Antibody Against:	Neurofilament Light
Cross-reactivity:	Hu, Rat, Ms, Fel, Bov, Por, Chk
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 -20C for a higher stability. Avoid freeze-thaw cycles.
Expiry Date:	12 months after purchase
Specific References:	1. Felitsyn N. et al (2008) The heme precursor delta-aminolevulinate blocks peripheral myelin formation. J Neurochem. 2008 Sep;106(5):2068-79.

51 West Thebarton Road • Thebarton • South Australia 5031
Telephone + 61(0)8 8352 7711 • Email sales@biosensis.com • www.biosensis.com

Mouse monoclonal antibody to Neurofilament Light [DA2]



Left: Cells grown from adult rat brain. The large cell in the middle is stained with Mouse monoclonal antibody to Neurofilament Light [DA2] M-1391-50 (green). Another type of neuronal lineage cell was stained with Rabbit polyclonal to alpha-internexin R-1379-50 (red). These cells were mitotic but had several characteristics of neurons. Right: Analysis of neurofilament, light, expression in human prostate cancer cell line DU145 by Flow Cytometry. Fixing and Permeabilization of cells: Absolute methanol (10 minutes in ice) and 0.1% Tween-20 in PBS, Blocking: 200 ug/mL Normal Sheep IgG (20 minutes), Primary antibody: Mouse Monoclonal antibody to Neurofilament Light (cat # M-1391-50, 2 μg per ~10^6 cells) for 30 minutes at room temperature, Secondary antibody: Goat anti-mouse PE labeled secondary antibody (1:100 fold dilution) with incubation for 20 minutes in dark at room temperature. Non-specific Control IgG, clone X63 (cat # M-1249-200) was used as negative control under same conditions (black dashed). Flow cytometry data and results were generated using Orflo MoxiflowTM instrument and protocols.

51 West Thebarton Road • Thebarton • South Australia 5031
Telephone + 61(0)8 8352 7711 • Email sales@biosensis.com • www.biosensis.com