



## Mouse monoclonal antibody to Neurofilament Heavy, phosphorylated [NAP4]

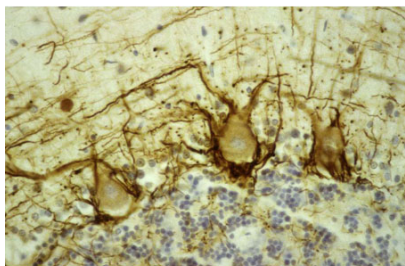
<b>Catalogue No.:</b>	M-1387-50
<b>Description:</b>	Neurofilaments contain three intermediate filament proteins: light (68 kDa), medium (160 kDa) and heavy (200 kDa). Neurofilament heavy (NF200 or NF-H) is phosphorylated and it is thought that this results in the formation of interfilament cross bridges that are important in the maintenance of axonal caliber.
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	50 µl
<b>Antigen:</b>	Full length native protein (purified) from Pig spinal cord.
<b>Antibody Type:</b>	Monoclonal
<b>Isotype:</b>	IgG1
<b>Clone:</b>	NAP4
<b>Other Names:</b>	NF-200; NF200; NF-H; NEFH; N52; Neurofilament heavy polypeptide; Neurofilament triplet H protein; 200 kDa neurofilament protein; KIAA0845; NFH;
<b>Accession:</b>	P12036 NFH_HUMAN;
<b>Produced in:</b>	Mouse
<b>Applications:</b>	Western Blotting (WB), Immunocytochemistry (IC) and Flow Cytometry. Suggested dilution for WB of 1:5,000-10,000. This antibody recognises NF-H in frozen sections, tissue culture and in formalin-fixed sections. Suggested dilution for IC is 1:500-1,000. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
<b>Specificity:</b>	The specificity of this antibody has been confirmed by WB. This antibody recognises phosphorylated NF-H KSP (lysine-serine-proline) type sequences. In some species there is some cross-reactivity with the related KSP sequences found in subunit NF-M.
<b>Antibody Against:</b>	Neurofilament Heavy, phosphorylated
<b>Cross-reactivity:</b>	Chicken, Rat. Predicted to react with mammals 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 -20°C for a higher stability. Avoid freeze-thaw cycles.
<b>Expiry Date:</b>	12 months after purchase
<b>Specific References:</b>	1. Boylan K. et al (2009) Immunoreactivity of the phosphorylated axonal neurofilament H subunit (pNF-H) in blood of ALS model rodents and ALS patients: evaluation of blood pNF-H as a potential ALS biomarker. J Neurochem. 2009 Dec;111(5):1182-91.  2. Rangaraju S. et al (2009) Molecular architecture of myelinated peripheral nerves is

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supported by calorie restriction with aging. Aging Cell. 2009 Apr;8(2):178-91.



Human cerebellar cortex fixed in formalin, embedded in paraffin and stained with Mouse monoclonal antibody to Neurofilament Heavy, phosphorylated [NAP4] M-1387-50 using the ABC (avidin biotin conjugate) method. The section was counterstained with heamatoxylin-eosin (blue). This antibody stains prominent basket cell axons surrounding the large Purkinje neurons. Granule cell layer at bottom of image, molecular layer at top.

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