Product Information Sheet

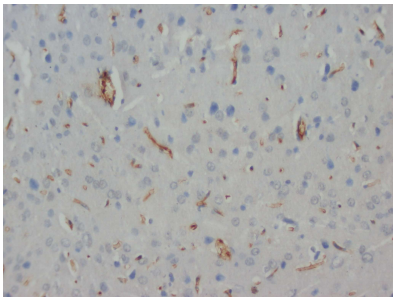
Monoclonal Anti-Neurofilament 200 (Phos. and Nonphos.) *NF200*

Catalogue No. MA1071

Lot No. 08A12

Clone: NF-200

Ig type: mouse IgG1



Size: 100µg/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)

Immunogen

C-terminal segment of enzymatically dephosphorylated pig Neurofilament 200.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 0.5ml with the appropriate system to detect NF200 in cells and tissues.

Immunohistochemistry(P)

At 1-2µg/ml to detect NF200 in formalin fixed and paraffin embedded tissues.

Immunohistochemistry(F)

At 1-2µg/ml to detect NF200 in formalin or acetone fixed tissues.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN_3 as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

At -20˚C for one year. After reconstitution, at 4˚C for three month. It can also be aliquotted and stored frozen at -20˚C for longer time.

To reorder contact us at:

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BACKGROUND

Neurofilaments are composed of 3 neuron-specific proteins with apparent molecular masses of 68 kD (NFL), 125 kD (NFM), and 200 kD (NFH) on SDS-gel electrophoresis. Genomic clones for the largest human neurofilament protein (NF-H) were isolated, the intron/exon boundaries mapped and the entire protein-coding regions (exons) sequenced. mutations in neurofilaments have been linked to some forms of Charcot-Marie-Tooth disease (CMT)

REFERENCE

1. Lees, J. F.; Shneidman, P. S.; Skuntz, S. F.; Carden, M. J.; Lazzarini, R. A. : The structure and organization of the human heavy neurofilament subunit (NF-H) and the gene encoding it. EMBO J. 7: 1947-1955, 1988.

2. Brownlees, J.; Ackerley, S.; Grierson, A. J.; Jacobsen, N. J. O.; Shea, K.; Anderton, B. H.; Leigh, P. N.; Shaw, C. E.; Miller, C. C. J. : Charcot-Marie-Tooth disease neurofilament mutations disrupt neurofilament assembly and axonal transport. Hum. Molec. Genet. 11: 2837-2844, 2002.