Novocastra™ Lyophilized Mouse Monoclonal Antibody Neurofilament 200 kD

Product Code: NCL-NF200

Intended Use	FOR RESEARCH USE ONLY.
Specificity	Human neurofilament polypeptide, 200 kD.
Clone	RT97
Ig Class	IgG1
Antigen Used for Immunizations	Triton X-100 insoluble rat brain protein.
Hybridoma Partner	Mouse myeloma (P3-X63 Ag8-653).
Preparation	Lyophilized tissue culture supernatant containing 15 mM sodium azide. Reconstitute with 1 mL or 0.1 mL of sterile distilled water as indicated on vial label.
Effective on Frozen Tissue	Yes
Effective on Paraffin Wax Embedded Tissue	Yes
Recommendations on Use	Immunohistochemistry: Typical working dilution 1:50. 60 minutes primary antibody incubation at 25 °C. Standard ABC technique. Western Blotting: Not evaluated.
Positive Controls	Immunohistochemistry: Brain.
Staining Pattern	Cytoplasmic labeling of neuronal axons.
Storage and Stability	Store unopened lyophilized antibody at 4 °C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. The reconstituted antibody is stable for at least two months when stored at 4 °C. For long term storage, it is recommended that aliquots of the antibody are frozen at -20 °C (frost-free freezers are not recommended). Repeated freezing and thawing must be avoided. Prepare working dilutions on the day of use.
General Overview	Neurofilaments constitute the main structural elements of neuronal axons and dendrites. Neurofilaments are composed of three major subunits referred to as the neurofilament triplet, with molecular weights of 68 kD, 160 kD and 200 kD. Neurofilament subunits are present in neurons, neuronal processes, peripheral nerves and sympathetic ganglion cells.
General References	Weber K, Shaw G, Osborn M, et al.. Cold Spring Harbour Symp. Quant. Biol. 47: 717–729 (1983). Anderton B H, Breinburg D, Downes M J, et al.. Nature. 298: 84–86 (1982).

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