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| Cat. No: | AB-10686 |
| Conjugate: | Unconjugated |
| Size: | 50 ul |
| Clone: | POLY |
| Concentration: | 1mg/ml |
| Host: | Ch |
| Isotype: | IgG |
| Immunogen: | Recombinant construct containing the C-terminus of the human sequence (amino acids 708-877) expressed in and purified from E. coli. |
| Reactivity: | Hu, Rt, Ms, Ch |
| Applications: | Western Blot: 1:2,000-5,000 Immunofluorescence: 1:500-1,000 Immunocytochemistry: 1:500-1,000 Immunohistochemistry: 1:500-1,000 |
| Molecular Weight: | 145-160kDa by SDSPAGE |
| Purification: | Serum |
| Background: | Neurofilaments are the 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called NF-L, NF-M and NF-H. NF-M is the neurofilament middle or medium molecular weight polypeptide and runs on SDS-PAGE gels at 145-160kDa, with some species variability, though the real molecular weight is ~105kDa. The major function of neurofilaments is likely to control the diameter of large axons (1). Antibodies to NF-M such as NF-M are useful for identifying neuronal cells and their processes in tissue sections and in cell culture. NF-M antibodies can also be useful to visualize neurofilament rich accumulations seen in many neurological diseases, such as Amyotrophic Lateral Sclerosis (a.k.a. Lou Gehrig's disease) and Alzheimer's disease (2-4). Much recent evidence has suggested that the detection of NF-L and NF-H in blood and CSF might be a useful prognostic or diagnostic biomarkers of neuronal damage and degeneration associated with a variety of CNS pathologies (5,6). The potential utility of NF-M in this fashion has not to date been examined. The -NF-M antibody was made against a recombinant fusion protein of E. coli TrpE fused to the C-terminus of rat NF-M, amino acids 677-845 (7). This region is very highly conserved in protein sequence across species boundaries and contains some interesting peptide repeats of currently unknown function (8). |
| Form: | Liquid |
| Buffer: | Antibody supplied as an aliquot of IgY preparation at 20-30 mg/mL with 5mM NaN3 |
| Storage: | Store at 4°C. For long term storage, leave frozen at -20°C |

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