

34-1085: Monoclonal Antibody to Neurofilament NF-M (Clone: 3H11)

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| Clonality : | Monoclonal |
| Clone Name : | 3H11 |
| Application : | WB, IF/ICC, IHC |
| Reactivity : | Human, Rat, Mouse, Cow, Pig, Horse, Chicken |
| Gene : | NEFM |
| Gene ID : | 4741 |
| Uniprot ID : | P07197 |
| Format : | Ascites |
| Alternative Name : | 160 kDa neurofilament protein, Neurofilament 3, Neurofilament triplet M protein |
| Isotype : | Mouse, IgG1 |
| Immunogen Information : | Recombinant fusion protein containing the extreme C-terminus of rat NF-M expressed in and purified from E. coli |

Product Info

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| Amount : | 50 µl / 100 µl |
| Content : | Antibody is supplied as an aliquot of 1 mg/ml of affinity purified antibody or ascites fluid. |
| Storage condition : | Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles. |

Application Note

WB: 1:5,000. IF/ICC and IHC: 1:2,000.

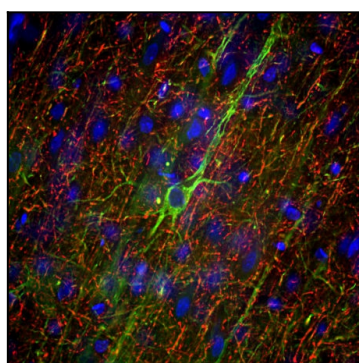


Figure-1: Immunofluorescence analysis of adult rat frontal cortex section stained with mouse mAb to neurofilament NF-M, (34-1085), dilution 1:5,000 in green, and costained with chicken pAb to neurofilament NF-H, (34-1080), dilution 1:5,000 in red. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µm, and free-floating sections were stained with above antibodies. (34-1085) antibody labels neuron cell bodies and dendrites of pyramidal neurons, as well as dendrites and axons of other neuronal cells, while the NF-H antibody, which is primarily directed against the heavily phosphorylated axonal forms of this molecule, and so stains the network of neuronal axons only.

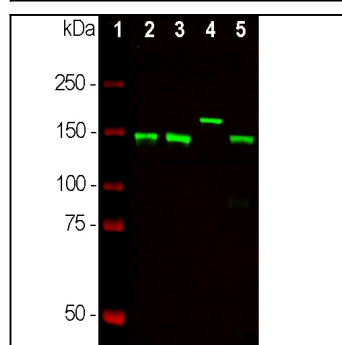


Figure-2: Western blot analysis of neuronal tissue lysates using mouse mAb to NF-M, (34-1085), dilution 1:10,000 in green: [1] protein standard (red), [2] rat spinal cord, [3] mouse spinal cord, [4] cow spinal cord and [5] rat sciatic nerve. Strong bands at 145kDa correspond to rodent NF-M while that at about 160kDa corresponds to the significantly larger bovine NF-M protein.