

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

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

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.

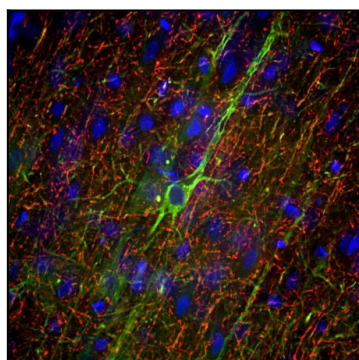


Figure-1: Immunofluorescence analysis of adult rat frontal cortex section stained with mouse mAb to neurofilament NF-M, (34-1085), dilution 1:5,000 in green, and costained with chicken pAb to neurofilament NF-H, (34-1080), dilution 1:5,000 in red. Following transcardial perfusion of rat with 4% paraformaldehyde, 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.

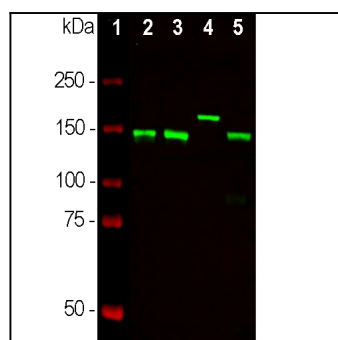


Figure-2: Western blot analysis of neuronal tissue lysates using mouse mAb to NF-M, (34-1085), dilution 1:10,000 in green: [1] protein standard (red), [2] rat spinal cord, [3] mouse spinal cord, [4] cow spinal cord and [5] rat sciatic nerve. Strong bands at 145kDa correspond to rodent NF-M while that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