

34-1075: Monoclonal Antibody to Neurofilament NF-H (Clone: AH1)

Clonality :	Monoclonal
Clone Name :	AH1
Application :	WB, IF/ICC, IHC
Reactivity :	Human, Rat, Mouse, Cow, Pig, Horse
Gene :	NEFH
Gene ID :	4744
Uniprot ID :	P12036
Format :	Ascites
Alternative Name :	200 kDa neurofilament protein, Neurofilament triplet H protein
Isotype :	Mouse, IgG1
Immunogen Information :	Native NF-H purified from bovine spinal cord

Product Info

Amount :	50 µl / 100 µl
Content :	Antibody is supplied as an aliquot of ascites fluid or affinity purified preparation at 1 mg/ml.
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: 1:10,000. ICC/IF and IHC: 1:1,000.

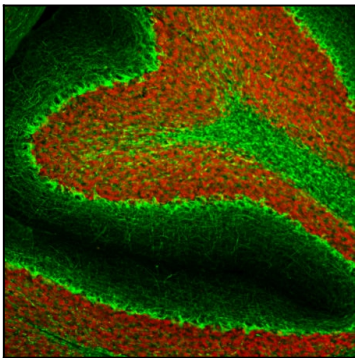


Figure-1: Immunohistological analysis of rat cerebellum section stained with mouse mAb to pNF-H, (34-1075), dilution 1:2,000 in green, and costained with rabbit pAb to FOX3/NeuN, (34-1036), dilution 1:5,000 in red. Following transcardial perfusion with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µm, and free-floating sections were stained with above antibodies. The (34-1075) antibody stains axons in the granular layer and white matter and prominent basket cell axons surrounding the large Purkinje neurons. The FOX3/NeuN antibody specifically labels nuclei of granular and other neurons, but does not stain Purkinje cells.

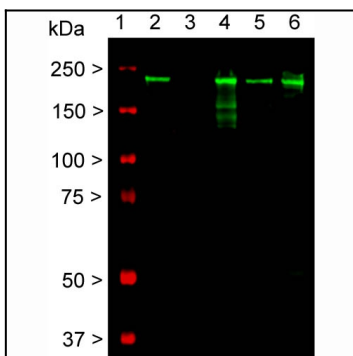


Figure-2: Western blot detection of the heavily phosphorylated axonal form of NF-H protein (pNF-H) in neural tissue lysates (20µg/lane) with affinity purified mouse monoclonal anti-pNF-H antibody (34-1075) at dilution of 1:5,000. Lanes on the blot are: [1] Protein size marker, [2] Adult rat whole brain [3] Embryonic (E20) rat whole brain [4] Adult rat spinal cord [5] Adult mouse whole brain [6] Adult mouse spinal cord. Rodent pNF-H protein appears as a single band of about 200kDa in adult rat and mouse lysates, but is not present in early development (Lane 3). Additional bands appearing on the blot (Lane 4) are most likely partially degraded products of pNF-H protein.