

34-1087: Polyclonal Antibody to Neurofilament NF-M

Clonality :	Polyclonal
Application :	WB, IF/ICC, IHC
Reactivity :	Human, Rat, Mouse, Cow, Pig, Horse, Chicken
Gene :	NEFM
Gene ID :	4741
Uniprot ID :	P07197
Format :	Conc. IgY prep.
Alternative Name :	160 kDa neurofilament protein, Neurofilament 3, Neurofilament triplet M protein
Isotype :	Chicken, IgY
Immunogen Information :	C-terminal extension of rat NF-M, the so-called KE segment, was expressed in bacteria and purified from inclusion bodies

Product Info

Amount :	50 µl / 100 µl
Content :	Antibody is supplied as an aliquot of concentrated IgY prep in PBS with 0.02% NaN ₃ (total concentration is 26mg/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: 1:2,000-5,000, IF/ICC & IHC: 1:500-1,000

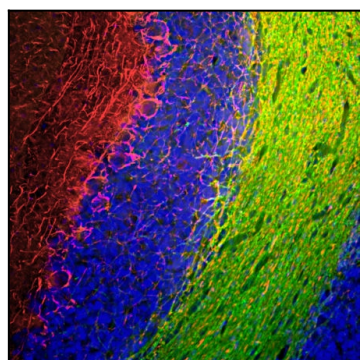


Figure-1: Immunofluorescent analysis of rat cerebellum section stained with chicken pAb to NF-M, (34-1087), dilution 1:1,000 in red, and costained with mouse mAb to CNP, dilution 1:500 in green. The blue is DAPI staining of nuclear DNA. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µM, and free-floating sections were stained with the above antibodies. The NF-M antibody labels the network of axons of basket neurons and other neurons. The CNP antibody stains oligodendrocytes, cells that create myelin sheaths around axons.

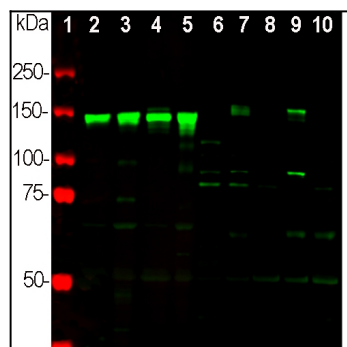


Figure-2: Western blot analysis of different neuronal tissue and cell lysates using chicken pAb to NF-M, (34-1087), dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] NIH/3T3 cells, [7] HEK293, [8] HeLa, [9] SH-SY5Y, and [10] C6 cells. Strong band at 145kDa corresponds to rodent NF-M, and about 160kDa band corresponds to human NF-M protein, visible in SHSY-5Y and HEK293 cells which have neuronal properties. NF-M is not expressed in HeLa and other cell lines tested.