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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, IqY

C-terminal extension of rat NF-M, the so-called KE segment, was expressed in bacteria and Immunogen Information:

purified from inclusion bodies

Product Info

 $50 \mu l / 100 \mu l$ Amount:

Antibody is supplied as an aliquot of concentrated IgY prep in PBS with 0.02% NaN3 (total Content:

concentration is 26mg/ml)

Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid Storage condition:

repeated freeze and thaw cycles.

Application Note

WB: 1:2,000-5,000, IF/ICC & IHC: 1:500-1,000

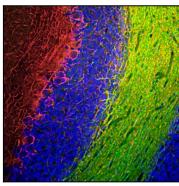


Figure-1: Immunofluorescent analysis of rat cerebellum section stained with chicken pAb to NF-M,(34-1087), dilution 1:1,000 in red, and costained with mouse mAb to CNP, dilution 1:500 in green. The blue is DAPI staining of nuclear DNA. Following transcardial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45î¼M, 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.

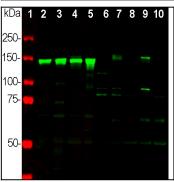


Figure-2: Western blot analysis of different neuronal tissue and cell lysates using chicken pAb to NF-M,(34-1087), dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] NIH/3T3 cells, [7] HEK293, [8] HeLa, [9] SH-SY5Y, and [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.