

## 34-1087: Polyclonal Antibody to Neurofilament NF-M

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

### Product Info

|                            |  |
|----------------------------|--|
| <b>Amount :</b>            | 50 µl / 100 µl   |
| <b>Content :</b>           | Antibody is supplied as an aliquot of concentrated IgY prep in PBS with 0.02% Na <sub>3</sub> N (total concentration is 26mg/ml) |
| <b>Storage condition :</b> | 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

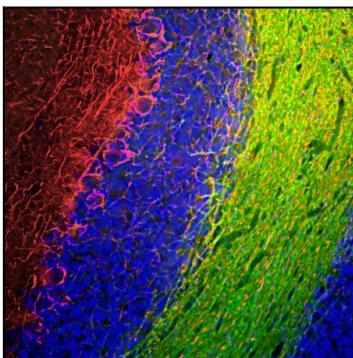


Figure-1: Immunofluorescent analysis of rat cerebellum section stained with chicken pAb to NF-M,(34-1087), dilution 1:1,000 in red, and costained with mouse mAb to CNP, dilution 1:500 in green. The blue is DAPI staining of nuclear DNA. Following transcardial perfusion of rat with 4% paraformaldehyde,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

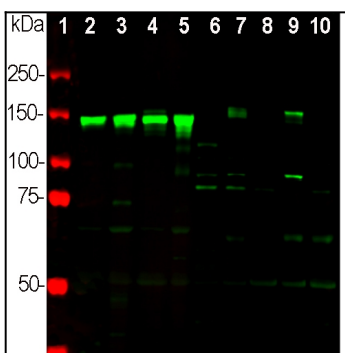


Figure-2: Western blot analysis of different neuronal tissue and cell lysates using chicken pAb to NF-M,(34-1087), dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain [3] rat spinal cord, [4] mouse brain, [5] mouse spinal cord, [6] NIH/3T3 cells, [7] HEK293, [8] HeLa, [9] SH-SY5Y, and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