

## 34-1080: Polyclonal Antibody to Neurofilament NF-H

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	WB, IF/ICC, IHC, ELISA
<b>Reactivity :</b>	Human, Rat, Mouse, Cow, Pig, Dog, Horse
<b>Gene :</b>	NEFH
<b>Gene ID :</b>	4744
<b>Uniprot ID :</b>	P12036
<b>Format :</b>	Conc. IgY prep.
<b>Alternative Name :</b>	200 kDa neurofilament protein, Neurofilament triplet H protein
<b>Isotype :</b>	Chicken, IgY
<b>Immunogen Information :</b>	Native NF-H purified from bovine spinal cord.

### Product Info

<b>Amount :</b>	25 µl / 50 µl
<b>Content :</b>	Antibody is supplied as an aliquot of concentrated IgY prep.
<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: 1:20,000-1:50,000. IF/ICC, IHC: 1:20,000.

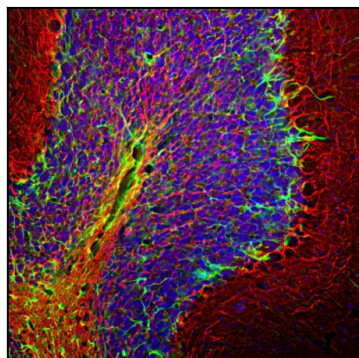


Figure-1: Immunohistological analysis of a rat cerebellum section stained with chicken pAb to NF-H, (34-1080), dilution 1:5,000 in red, and costained with rabbit pAb to GFAP, (34-1042), dilution 1:5,000 in green. The blue is DAPI staining of nuclear DNA. Following transcardial perfusion with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45µM, and free floating sections were stained with above antibodies. The NF-H antibody labels network of axons of different neurons, while the GFAP antibody stains astrocytes and other glial cells.

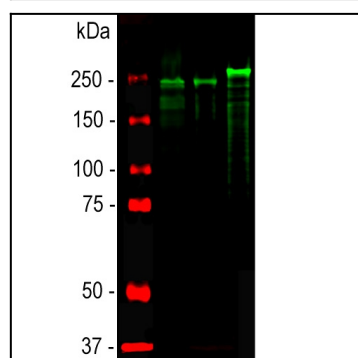


Figure-2: Western blot analysis of spinal cord lysates from different species using chicken pAb to NF-H, (34-1080), dilution 1:20,000 in green: [1] protein standard (red), [2] rat, [3] mouse, and [4] cow spinal cord. Strong band at about 200-220kDa corresponds to the phosphorylated form of NF-H. The protein from different species is known to have different SDS-PAGE molecular weights, with large species generally expressing larger proteins. Smaller proteolytic fragments of NF-H are also detected in spinal cord preparations with this antibody. The antibody does not recognize non-phosphorylated forms of NF-H (not shown, but see reference 1).