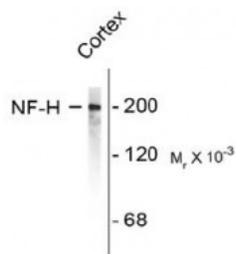




Neurofilament NF-H Antibody

CATALOG NUMBER: 50-254



Western blot of rat cortex lysate showing specific immunolabeling of the ~200k NF-H protein.

Below: Immunofluorescence of rat cortical neurons and glia showing NF-H staining (red).

Specifications

SPECIES REACTIVITY:	Chicken, Human, Mouse, Rat
TESTED APPLICATIONS:	IHC, WB
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
PREDICTED MOLECULAR WEIGHT:	200
SPECIFICITY:	Specific for the ~200k Neurofilament H protein.
IMMUNOGEN:	Purified bovine NF-H.
HOST SPECIES:	Chicken

Properties

PURIFICATION:	Total IgY fraction
PHYSICAL STATE:	Liquid
STORAGE CONDITIONS:	Neurofilament NF-H antibody can be stored at -20°C and is stable at -20°C for at least 1 year.
CLONALITY:	Polyclonal
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	NFH, KIAA0845, NFH, 200 kDa neurofilament protein, NF-H
ACCESSION NO.:	P12036
PROTEIN GI NO.:	226726294
OFFICIAL SYMBOL:	NEFH
GENE ID:	4744

Background

BACKGROUND: Neurofilaments are the 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called NF-L, NF-M and NF-H. NF-H is the neurofilament high or heavy molecular weight polypeptide and runs on SDS-PAGE gels at 200-220 kDa, with some variability across species boundaries. Antibodies to NF-H are useful for identifying neuronal cells and their processes in tissue sections and in tissue culture. NF-H antibodies can also be useful to visualize neurofilament accumulations seen in many neurological diseases, such as Amyotrophic Lateral Sclerosis (Lou Gehrig's disease) and Alzheimer's disease.

- REFERENCES:**
- 1) Harris, J., Ayyub, C. and Shaw G. (1991) A molecular dissection of the carboxyterminal tails of the major neurofilament subunits NF-M and NF-H. *J Neurosci Res* 30:47-62.
 - 2) Mendonca DM, Chimelli L, Martinez AM. (2005) Quantitative evidence for neurofilament heavy subunit aggregation in motor neurons of spinal cords of patients with amyotrophic lateral sclerosis. *Braz J Med Biol Res.* 38(6):925-933.
 - 3) Hu YY, He SS, Wang XC, Duan QH, Khatoun S, Iqbal K, Grundke-Iqbal I, Wang JZ (2002) Elevated levels of phosphorylated neurofilament proteins in cerebrospinal fluid of Alzheimer disease patients. *Neurosci Lett* 320(3):156-60.

FOR RESEARCH USE ONLY

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