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NEFH / NF-H Antibody (clone RNF404)

Mouse Monoclonal Antibody
Catalog # ALS14878

Specification

NEFH / NF-H Antibody (clone RNF404) - Product Information

Application	**IHC**
Primary Accession	P12036
Reactivity	**Human, Mouse, Rat, Rabbit, Monkey, Chicken, Sheep, Xenopus, Bovine, Guinea Pig, Dog**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**112kDa KDa**

NEFH / NF-H Antibody (clone RNF404) - Additional Information

Gene ID 4744

Other Names
Neurofilament heavy polypeptide, NF-H, 200 kDa neurofilament protein, Neurofilament triplet H protein, NEFH, KIAA0845, NFH

Target/Specificity
Reacts exclusively with the phosphorylated isoform of the 200 kD neurofilament protein.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
NEFH / NF-H Antibody (clone RNF404) is for research use only and not for use in diagnostic or therapeutic procedures.

NEFH / NF-H Antibody (clone RNF404) - Protein Information

Name NEFH

Synonyms KIAA0845, NFH

Function
Neurofilaments usually contain three intermediate filament proteins: NEFL, NEFM, and NEFH which are involved in the maintenance of neuronal caliber. NEFH has an important function in mature axons that is not subserved by the two smaller NF proteins. May additionally cooperate with the neuronal intermediate filament proteins PRPH and INA to form neuronal filamentous networks (By similarity).

Cellular Location
Cytoplasm, cytoskeleton. Cell projection, axon {ECO:0000250|UniProtKB:P19246}

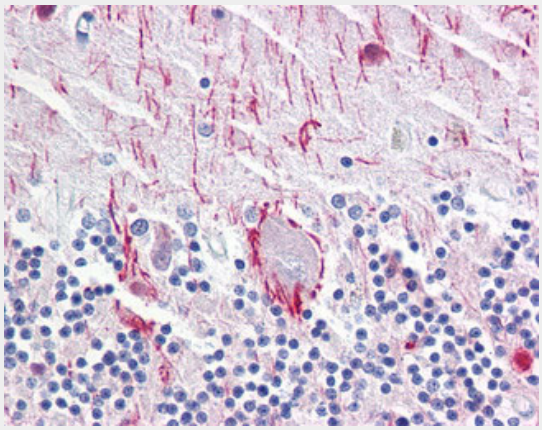
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NEFH / NF-H Antibody (clone RNF404) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NEFH / NF-H Antibody (clone RNF404) - Images



Anti-NEFH antibody IHC of human brain, cerebellum.

NEFH / NF-H Antibody (clone RNF404) - Background

Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber. NF-H has an important function in mature axons that is not subserved by the two smaller NF proteins.

NEFH / NF-H Antibody (clone RNF404) - References

Lees J.F.,et al.EMBO J. 7:1947-1955(1988).
Zhu Y.,et al.Beijing Yi Ke Da Xue Xue Bao 31:531-531(1999).
Nagase T.,et al.DNA Res. 5:355-364(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham I.,et al.Nature 402:489-495(1999).