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Product datasheet for AM33012PU-N

NFH (NEFH) Mouse Monoclonal Antibody [Clone ID: RNF405]

Product data:

Product Type:	Primary Antibodies
Clone Name:	RNF405
Applications:	IF, IHC, WB
Recommended Dilution:	**Immunoblotting.** **Immunofluorescence.** **Immunohistochemistry on Frozen Sections.** *Recommended Dilutions:* 1/50-1/100 for Immunohistochemistry with avidin biotinylated Horseradish Peroxidase complex (ABC) as detection reagent, and 1/100-1/500 for Immunoblotting applications.
Reactivity:	Bovine, Canine, Chicken, Guinea Pig, Hamster, Human, Mouse, Rabbit, Rat, Sheep, Xenopus, Zebrafish
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Neurofilament preparation of calf brain tissue.
Specificity:	RNF405 reacts exclusively with the phosphorylated isoform of the 200 kD Neurofilament protein.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody (undiluted) at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freeze-thaw cycles.
Stability:	Shelf life: One year from despatch.
Gene Name:	neurofilament, heavy polypeptide

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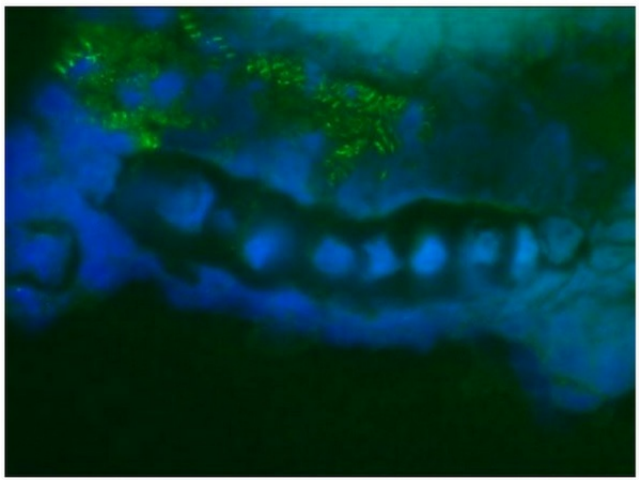
Database Link: Entrez Gene 4744 Human
P12036

Background: Like most other intermediate filament proteins (IFPs), the expression of the different neuronal IFPs is both tissue-specific and developmentally regulated. The neurofilament (NF) triplet proteins (70, 160, and 200 kDa) occur in both the central and peripheral nervous system and are normally restricted to neurons. The 70 kDa NF-protein can self-assemble into a filamentous structure, whereas the 160 kDa and 200 kDa NF-proteins require the presence of the 70 kDa NF-protein to co-assemble. All three NF proteins can be detected by immunohistochemical methods at day 9 or 10 after gestation in the mouse embryo. Although IFPs of the neurofilament type are normally restricted to neurons, there are reports on their expression in non-neuronal cells as well. For example, in heart conduction myocytes NF proteins are expressed together with desmin. In tumorpathology ganglioneuroblastomas and some of the other neuroblastomas are strongly positive with the neurofilament antisera. Also, some neuro-endocrine malignancies may show NF positivity. In cell cultures of neural tissues the neurofilament antibodies can monitor in vitro differentiation.

Synonyms: NEFH,NF-H,KIAA0845, NFH, 200 kDa neurofilament protein, Neurofilament triplet H protein, (Neuronal Marker), heavy polypeptide

Product images:



Immunofluorescence staining of a 9 days old Zebrafish embryo.