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# Anti-NEFH Antibody (Monoclonal, N52)

Catalog # ABO10457

## Product Information

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| **Application** | WB, IHC-P, IHC-F |
| **Primary Accession** | P16884 |
| **Host** | Mouse |
| **Isotype** | Mouse IgG1 |
| **Reactivity** | Human, Mouse, Rat |
| **Clonality** | Monoclonal |
| **Format** | Lyophilized |
| **Description** | Mouse IgG monoclonal antibody for NEFH, neurofilament, heavy polypeptide (NEFH) detection. Tested with WB, IHC-P, IHC-F in Human;mouse;rat. No cross reactivity with other proteins. |
| **Reconstitution** | Add 1ml of PBS buffer will yield a concentration of 100ug/ml. |

## Additional Information

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| **Other Names** | Neurofilament heavy polypeptide, NF-H, 200 kDa neurofilament protein, Neurofilament triplet H protein, Nefh, Nfh |
| **Calculated MW** | 115378 |
| **Application Details** | Immunohistochemistry(Paraffin-embedded Section), 1-2 □g/ml, Human, mouse, rat, By Heat<br><br>Immunohistochemistry(Frozen Section), 1-2 □g/ml, Human, mouse, rat, -<br>Western blot, 0.5ml, Human, mouse, rat |
| **Source** | Eukaryota |
| **Protein Name** | Neurofilament heavy polypeptide |
| **Contents** | Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative. |
| **Clone Names** | N52 |
| **Immunogen** | C-terminal segment of enzymatically dephosphorylated pig Neurofilament 200. |
| **Purification** | Ascites |
| **Cross Reactivity** | No cross reactivity with other proteins |
| **Storage** | At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated |

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| | freezing and thawing. |
| **Sequence Similarities** | Belongs to the intermediate filament family. |

## Protein Information

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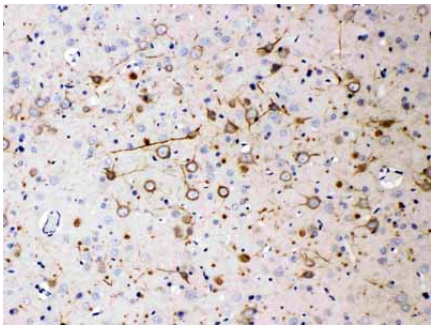
| **Name** | Nefh |
| **Synonyms** | Nfh |
| **Function** | Neurofilaments usually contain three intermediate filament proteins: NEFL, NEFM, and NEFH which are involved in the maintenance of neuronal caliber. NEFH has an important function in mature axons that is not subserved by the two smaller NEF proteins. May additionally cooperate with the neuronal intermediate filament proteins PRPH and INA to form neuronal filamentous networks (By similarity). |
| **Cellular Location** | Cytoplasm, cytoskeleton {ECO:0000250\|UniProtKB:P19246}. Cell projection, axon {ECO:0000250\|UniProtKB:P19246} |
| **Tissue Location** | Expressed in the dorsal root ganglion neurons (at protein level) (PubMed:9388258). Expressed in cutaneous and muscular sensory neurons (PubMed:19913522). |

## Background

Neurofilaments are composed of 3 neuron-specific proteins with apparent molecular masses of 68 kD(NFL), 125 kD(NFM), and 200 kD(NFH) on SDS-gel electrophoresis. Genomic clones for the largest human neurofilament protein(NF-H) were isolated, the intron/exon boundaries mapped and the entire protein-coding regions(exons) sequenced. mutations in neurofilaments have been linked to some forms of Charcot-Marie-Tooth disease(CMT).

## Images



Anti-NF200 antibody (monoclonal), ABO10457,
IHC(P)IHC(P): Rat Brain Tissue