10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-NEFH Antibody (Monoclonal, N52)

Catalog # ABO10457

Specification

Anti-NEFH Antibody (Monoclonal, N52) - Product Information

Application	**IHC**
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.

Anti-NEFH Antibody (Monoclonal, N52) - Additional Information

Other Names
Neurofilament heavy polypeptide, NF-H, 200 kDa neurofilament protein, Neurofilament triplet H protein, Nefh, Nfh

Calculated MW
115378 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 1-2 µg/ml, Human, mouse, rat, By Heat

Immunohistochemistry(Frozen Section), 1-2 µg/ml, Human, mouse, rat, -
Western blot, 0.5ml, Human, mouse, rat

Protein Name
Neurofilament heavy polypeptide

Contents
Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.

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 freezing and thawing.

Sequence Similarities
Belongs to the intermediate filament family.

Anti-NEFH Antibody (Monoclonal, N52) - Protein Information

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).

Anti-NEFH Antibody (Monoclonal, N52) - 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

Anti-NEFH Antibody (Monoclonal, N52) - Images

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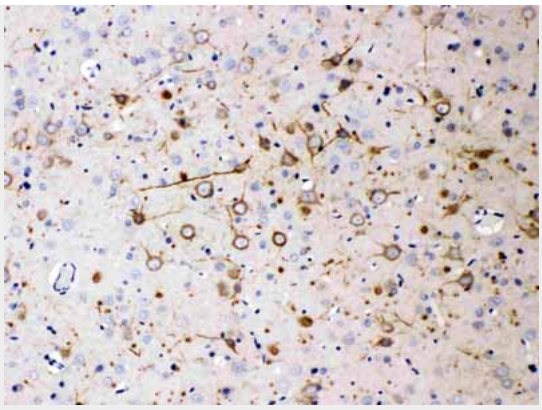

Anti-NF200 antibody (monoclonal), ABO10457, IHC(P)IHC(P): Rat Brain Tissue

Anti-NEFH Antibody (Monoclonal, N52) - 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).