

# NEFH Antibody

Purified Mouse Monoclonal Antibody

Catalog # AO1768a

## Product Information

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|--------------------------|---|
| <b>Application</b>       | WB, IHC, E  |
| <b>Primary Accession</b> | <a href="#">P12036</a>  |
| <b>Reactivity</b>        | Human   |
| <b>Host</b>              | Mouse   |
| <b>Clonality</b>         | Monoclonal  |
| <b>Clone Names</b>       | 8H10  |
| <b>Isotype</b>           | IgG1  |
| <b>Calculated MW</b>     | 111838  |
| <b>Description</b>       | Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and functionally maintain neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the heavy neurofilament protein. This protein is commonly used as a biomarker of neuronal damage and susceptibility to amyotrophic lateral sclerosis (ALS) has been associated with mutations in this gene. |
| <b>Immunogen</b>         | Purified recombinant fragment of human NEFH (AA: 968-1020) expressed in E. Coli.  |
| <b>Formulation</b>       | Purified antibody in PBS with 0.05% sodium azide  |

## Additional Information

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| <b>Gene ID</b>     | 4744   |
| <b>Other Names</b> | Neurofilament heavy polypeptide, NF-H, 200 kDa neurofilament protein, Neurofilament triplet H protein, NEFH, KIAA0845, NFH               |
| <b>Dilution</b>    | WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~1/10000  |
| <b>Storage</b>     | Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| <b>Precautions</b> | NEFH Antibody is for research use only and not for use in diagnostic or therapeutic procedures.  |

## Protein Information

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|             |      |
|-------------|------|
| <b>Name</b> | NEFH |
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## 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}

## References

1.J Neurol Sci. 2011 May 15;304(1-2):117-21. 2.Neurochem Res. 2011 Dec;36(12):2287-91.

## Images

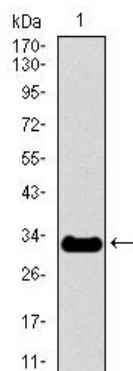


Figure 1: Western blot analysis using NEFH mAb against human NEFH recombinant protein. (Expected MW is 31.2 kDa)

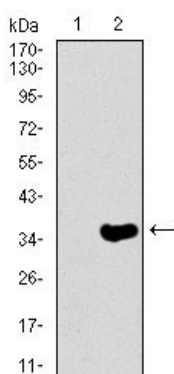


Figure 2: Western blot analysis using NEFH mAb against HEK293 (1) and NEFH (AA: 968-1020)-hIgGFc transfected HEK293 (2) cell lysate.

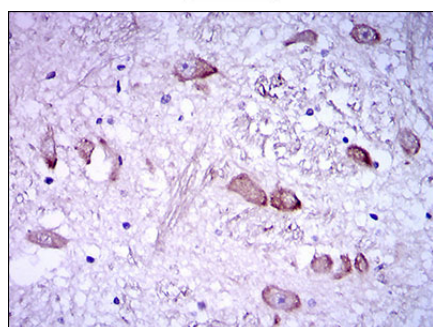


Figure 3: Immunohistochemical analysis of paraffin-embedded medulla oblongata tissues using NEFH mouse mAb with DAB staining.

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