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**Product Name: NEFH Mouse Monoclonal Antibody****Catalog #: AMM82473**

For research use only.

**Summary**

|                      |   |
|----------------------|---|
| <b>Description</b>   | Mouse monoclonal Antibody   |
| <b>Host</b>          | Mouse   |
| <b>Application</b>   | IHC,ELISA,FC  |
| <b>Reactivity</b>    | Human   |
| <b>Conjugation</b>   | Unconjugated  |
| <b>Modification</b>  | Unmodified  |
| <b>Isotype</b>       | Mouse IgG1  |
| <b>Clonality</b>     | Monoclonal  |
| <b>Form</b>          | Liquid  |
| <b>Concentration</b> | 1mg/ml  |
| <b>Storage</b>       | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>      | Ice bags  |
| <b>Buffer</b>        | Purified antibody in PBS with 0.05% sodium azide                            |
| <b>Purification</b>  | Affinity Purification   |

**Application**

|                         |  |
|-------------------------|--|
| <b>Dilution Ratio</b>   | IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400 |
| <b>Molecular Weight</b> | 112.4kDa   |

**Antigen Information**

|                          |   |
|--------------------------|---|
| <b>Gene Name</b>         | NEFH  |
| <b>Alternative Names</b> | NFH; CMT2CC   |
| <b>Gene ID</b>           | 4744.0  |
| <b>SwissProt ID</b>      | P12036  |
| <b>Immunogen</b>         | Purified recombinant fragment of human NEFH (AA: 2-251) expressed in E. Coli. |

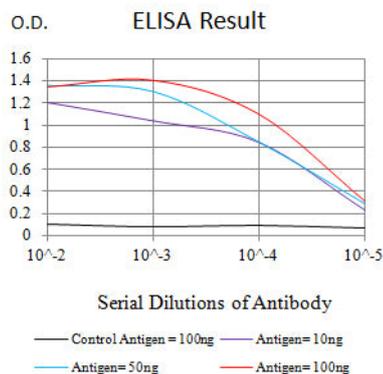
**Background**

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

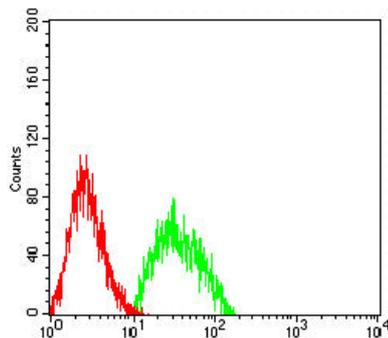
biomarker of neuronal damage and susceptibility to amyotrophic lateral sclerosis (ALS) has been associated with mutations in this gene.

## Research Area

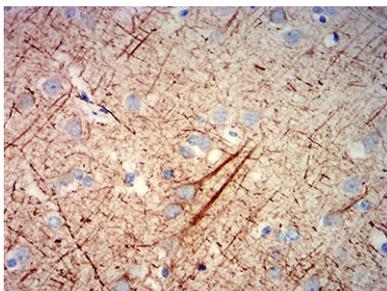
## Image Data



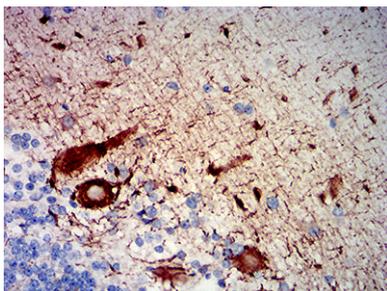
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



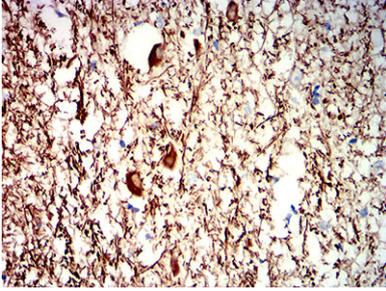
Flow cytometric analysis of SK-N-SH cells using NEFH mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded human cerebrum tissues using NEFH mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human cerebellum tissues using NEFH mouse mAb with DAB staining.



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