**NF-M Polyclonal antibody**

**Catalog Number:** 25805-1-AP

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### Basic Information

<table>
<thead>
<tr>
<th>Catalog Number:</th>
<th>GenBank Accession Number:</th>
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<tbody>
<tr>
<td>25805-1-AP</td>
<td>BC002421</td>
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<tr>
<th>Source:</th>
<th>Isotype:</th>
<th>Immunogen Catalog Number:</th>
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<tbody>
<tr>
<td>Rabbit</td>
<td>IgG</td>
<td>AG22709</td>
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<thead>
<tr>
<th>Size:</th>
<th>Concentration:</th>
<th>Nanodrop:</th>
<th>Bradford:</th>
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</thead>
<tbody>
<tr>
<td>150μl</td>
<td>260 μg/ml</td>
<td>213 μg/ml</td>
<td>260 μg/ml</td>
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</tbody>
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**Purification Method:** Antigen affinity purification

**Recommended Dilutions:**

- **WB:** 1:2000-1:10000
- **IHC:** 1:50-1:500
- **IF:** 1:50-1:500

### Applications

**Tested Applications:** FC, IF, IHC, WB, ELISA

**Cited Applications:** IF, IHC, WB

**Species Specificity:** human, rat, mouse

**Cited Species:** canine, human, mouse, rat

**Note-IHC:** suggested antigen retrieval with **TE buffer pH 9.0.** (*) Alternatively, antigen retrieval may be performed with **citrate buffer pH 6.0**

### Background Information

NEFM, also named as NEF3 and NFM, belongs to the intermediate filament family. Neurofilaments are the 10nm intermediate filaments found specifically in neurons. They are a major component of the cell's cytoskeleton, and provide support for normal axonal radial growth. Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber. The names given to the three major neurofilament subunits are based upon the apparent molecular weight of the mammalian subunits on SDS-PAGE: NF-L, 65-68 kDa; NF-M, 145-160 kDa and NF-H, 200-220 kDa. This antibody recognizes endogenous NF-M protein.

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natasha L Pacheco</td>
<td>29090078</td>
<td>Mol Autism</td>
<td>WB</td>
</tr>
<tr>
<td>Dong Sun</td>
<td>31642560</td>
<td>Cell Biol Int</td>
<td>WB</td>
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<tr>
<td>Jipeng Jiang</td>
<td>33026366</td>
<td>Biomater Sci</td>
<td>IF</td>
</tr>
</tbody>
</table>

### Storage

**Storage:** Store at -20°C. Stable for one year after shipment.

**Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

**Aliquoting is unnecessary for -20°C storage**

*** 20μl sizes contain 0.1% BSA

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For technical support and original validation data for this product please contact:

**T:** 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

**E:** proteintech@ptglab.com

**W:** ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
**Selected Validation Data**

Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 25805-1-AP (NF-M antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 25805-1-AP (NF-M antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 25805-1-AP (NF-M antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Various lysates were subjected to SDS PAGE followed by western blot with 25805-1-AP (NF-M antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

Mouse brain tissue were subjected to SDS PAGE followed by western blot with 25805-1-AP (NF-M Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

1X10^6 PC-12 cells were intracellularly stained with 0.4 ug Anti-Human NF-M (25805-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).