# anti-NEFL Antibody (AA 400-543)

## Overview

<table>
<thead>
<tr>
<th>Quantity</th>
<th>100 μL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target</td>
<td>NEFL</td>
</tr>
<tr>
<td>Binding Specificity</td>
<td>AA 400-543</td>
</tr>
<tr>
<td>Reactivity</td>
<td>Human</td>
</tr>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Conjugate</td>
<td>This NEFL antibody is un-conjugated</td>
</tr>
<tr>
<td>Application</td>
<td>Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)</td>
</tr>
</tbody>
</table>

## Product Details

**Immunogen:** Recombinant fusion protein containing a sequence corresponding to amino acids 400-543 of human Neurofilament L (NP_006149.2).

**Sequence:**
```
LSFTSVGSIT SGYSQSSQVF GRSAYGGLQT SSYLMSTRSF PSYYTSHVQE EQIEVEETIE AAKAEEAKDE PPSEGEAEF EKDKKEEAEEE EAAEEDAEAK EESEAKKEEE EGGEGEEGEE TKEAEEEEKK VEGAGEEQAA KKKD
```

**Isotype:** IgG

**Cross-Reactivity:** Human, Mouse, Rat

**Characteristics:** Polyclonal Antibodies

## Target Details

<table>
<thead>
<tr>
<th>Target</th>
<th>NEFL</th>
</tr>
</thead>
</table>
### Target Details

<table>
<thead>
<tr>
<th>Alternative Name:</th>
<th>NEFL (NEFL Products)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Background:</strong></td>
<td>Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and they functionally maintain the neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the light chain neurofilament protein. Mutations in this gene cause Charcot-Marie-Tooth disease types 1F (CMT1F) and 2E (CMT2E), disorders of the peripheral nervous system that are characterized by distinct neuropathies. A pseudogene has been identified on chromosome Y, NEFL,CMT1F,CMT2E,NF-L,NF68,NFL,PPP1R110,Signal Transduction,Cell Biology &amp; Developmental Biology,Cell Adhesion,Cytoskeleton,Intermediate Filaments,Neuroscience,Cell Type Marker,Neurodegenerative Diseases,Amyloid Plaque and Neurofibrillary Tangle Formation in Alzheimer’s Disease,Stem Cells,Neural Stem Cell marker,Neuron marker,Axon marker,NEFL</td>
</tr>
<tr>
<td><strong>Molecular Weight:</strong></td>
<td>61 kDa</td>
</tr>
<tr>
<td><strong>Gene ID:</strong></td>
<td>4747</td>
</tr>
<tr>
<td><strong>UniProt:</strong></td>
<td>P07196</td>
</tr>
</tbody>
</table>

### Application Details

<table>
<thead>
<tr>
<th>Application Notes:</th>
<th>WB, 1:500 - 1:2000; IHC, 1:50 - 1:200; IF, 1:50 - 1:200</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Restrictions:</strong></td>
<td>For Research Use only</td>
</tr>
</tbody>
</table>

### Handling

<table>
<thead>
<tr>
<th><strong>Format:</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Buffer:</strong></td>
<td>PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3</td>
</tr>
<tr>
<td><strong>Preservative:</strong></td>
<td>Sodium azide</td>
</tr>
<tr>
<td><strong>Precaution of Use:</strong></td>
<td>This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.</td>
</tr>
<tr>
<td><strong>Handling Advice:</strong></td>
<td>Avoid freeze / thaw cycles</td>
</tr>
<tr>
<td><strong>Storage:</strong></td>
<td>-20 °C</td>
</tr>
<tr>
<td><strong>Storage Comment:</strong></td>
<td>Store at -20°C. Avoid freeze / thaw cycles.</td>
</tr>
</tbody>
</table>
Images

Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using Neurofilament L antibody (ABIN3020808, ABIN3020809, ABIN3020810 and ABIN6213733) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 μg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.

Western Blotting

**Image 2.** Western blot analysis of extracts of MCF7 cells using NEFL antibody.

Immunofluorescence

**Image 3.**

Please check the product details page for more images. Overall 8 images are available for ABIN3020809.