

## Recombinant Neurofilament heavy polypeptide Monoclonal Antibody

catalog number: **AN301031L**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

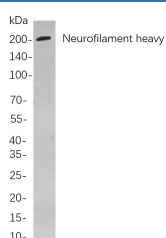
### Description

<b>Reactivity</b>	Human;Mouse;Rat
<b>Immunogen</b>	Recombinant Human Neurofilament heavy polypeptide protein
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG, $\kappa$
<b>Clone</b>	B782
<b>Purification</b>	Protein A
<b>Buffer</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

### Applications

Applications	Recommended Dilution
IHC	1:200-1:1000
WB	1:1000-1:5000
IF	1:200-1:1000
ELISA	1:5000-1:20000

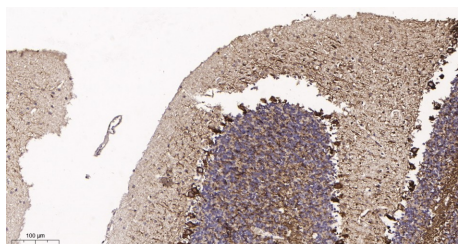
### Data



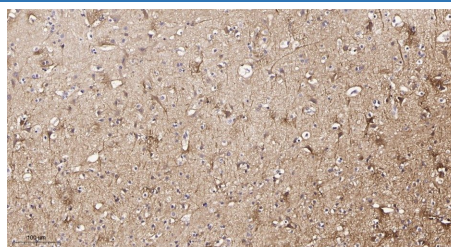
Western Blot with Recombinant Neurofilament heavy polypeptide Monoclonal Antibody at dilution of 1:1000 dilution. Lane A: Mouse brain cells.

**Observed-MW:180-200 kDa**

**Calculated-MW:110 kDa**



Immunohistochemistry of paraffin-embedded mouse brain tissue using Recombinant Neurofilament heavy polypeptide Monoclonal Antibody at dilution of 1:200.



Immunohistochemistry of paraffin-embedded human brain tissue using Recombinant Neurofilament heavy polypeptide Monoclonal Antibody at dilution of 1:200.

### Preparation & Storage

<b>Storage</b>	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
<b>Shipping</b>	Ice bag

### Background

#### For Research Use Only

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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.