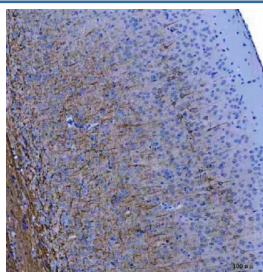


Neurofilament Antibody (Light) [clone NR4] (R30061)

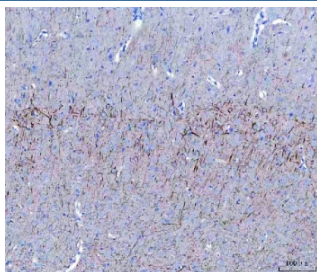
Catalog No.	Formulation	Size
R30061	0.5mg/ml with 1% BSA and 0.01% sodium azide if reconstituted with 0.2ml sterile 1X PBS	100 ug

[Bulk quote request](#)

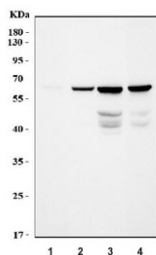
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Ascites
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	NR4
Purity	Ascites
Gene ID	4747
Localization	Cytoplasmic, membranous
Applications	Western Blot : 1-2ug/ml IHC (FFPE) : 2-4ug/ml IHC (Frozen) : 2-4ug/ml; formalin or acetone fixed tissues
Limitations	This Neurofilament antibody is available for research use only.



IHC staining of FFPE mouse brain tissue with Light Chain Neurofilament antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain tissue with Light Chain Neurofilament antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human SH-SY5Y, 2) human U-251, 3) rat brain and 4) mouse brain tissue lysate with Light Chain Neurofilament antibody. Predicted molecular weight: 62-68 kDa.

Description

Neurofilaments are composed of three neuron-specific proteins with apparent molecular masses of 68kD (NFL), 125kD (NFM) and 200kD (NFH) on SDS-gel electrophoresis. And they have a role in the maturation of regenerating myelinated axons. NF68, also called Neurofilament Protein Light (NFL) is one of the most abundant cytoskeletal components of the neuron. Mutations in this gene were reported as a cause for autosomal dominant Charcot-Marie-Tooth type 2E(CMT2E) linked to chromosome 8p21. NFL was identified repeatedly in both screenings and found to interact with Myotubularin-related 2 gene, MTMR2 in both Schwann cells and neurons.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Neurofilament antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Pig spinal cord was used as the immunogen for this light Neurofilament antibody.

Storage

After reconstitution, the Neurofilament antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.