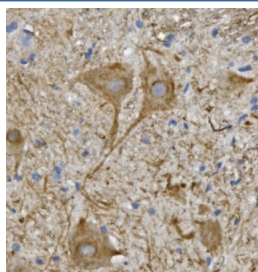


Neurofilament Light Antibody / NF-L (RQ6261)

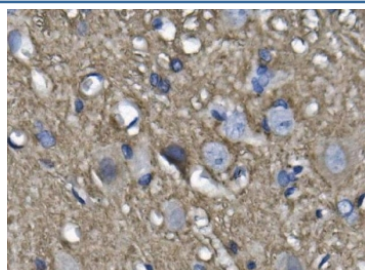
Catalog No.	Formulation	Size
RQ6261	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

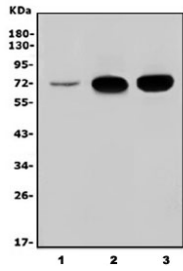
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P07196
Applications	Western Blot : 1-2ug/ml Flow Cytometry : 1-3ug/million cells Immunohistochemistry (FFPE) : 1-2ug/ml Direct ELISA : 0.1-0.5ug/ml Immunofluorescence : 5ug/ml
Limitations	This Neurofilament Light antibody is available for research use only.



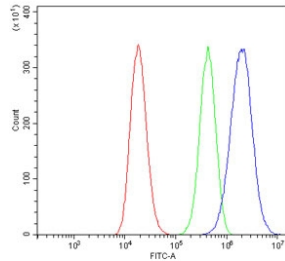
IHC staining of FFPE mouse spinal cord with Neurofilament Light antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



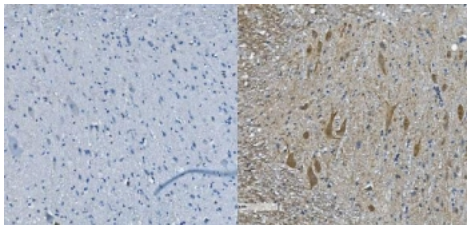
IHC staining of FFPE rat spinal cord with Neurofilament Light antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



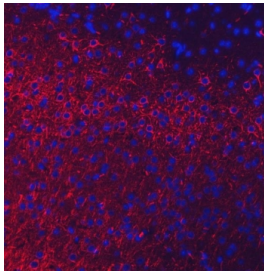
Western blot testing of 1) human SH-SY5Y, 2) rat brain and 3) mouse brain lysate with Neurofilament Light antibody. Predicted molecular weight: 62-68 kDa.



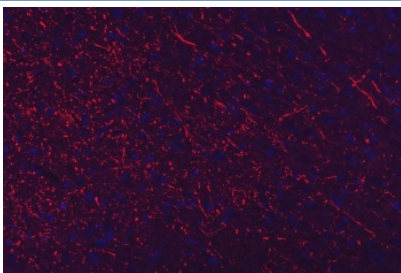
Flow cytometry testing of human 293T cells with Neurofilament Light antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Neurofilament Light antibody.



IHC staining of FFPE mouse spinal cord (right) and negative control (left) with Neurofilament Light antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE mouse brain tissue with Neurofilament Light antibody (red) and DAPI nuclear stain (blue). HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE rat brain tissue with Neurofilament Light antibody (red) and DAPI nuclear stain (blue). HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Neurofilament light polypeptide (NFL), also known as neurofilament light chain, is a neurofilament protein that in humans is encoded by the NEFL gene. 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.

Application Notes

Optimal dilution of the Neurofilament Light antibody should be determined by the researcher.

Immunogen

A human recombinant partial protein (amino acids F4-A463) was used as the immunogen for the Neurofilament Light antibody.

Storage

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