

Neurofilament L (NF-L) Antibody
Mouse monoclonal antibody
Catalog # AN1147**Specification**

Neurofilament L (NF-L) Antibody - Product Information

Application	WB
Primary Accession	P02547
Reactivity	Rat
Predicted	Chicken, Human, Mouse
Host	Mouse
Clonality	monoclonal
Isotype	IgG1
Calculated MW	68 KDa

Neurofilament L (NF-L) Antibody - Additional Information

Gene ID	4747
Gene Name	NEFL
Other Names	
Neurofilament light polypeptide, NF-L, 68 kDa neurofilament protein, Neurofilament triplet L protein, NEFL	

Target/Specificity

Preparation of porcine NF-L.

Dilution

WB~~ 1:1000

Format

Unpurified, concentrated culture supernatant.

Antibody Specificity

Specific for the ~68k Neurofilament L protein.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Neurofilament L (NF-L) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

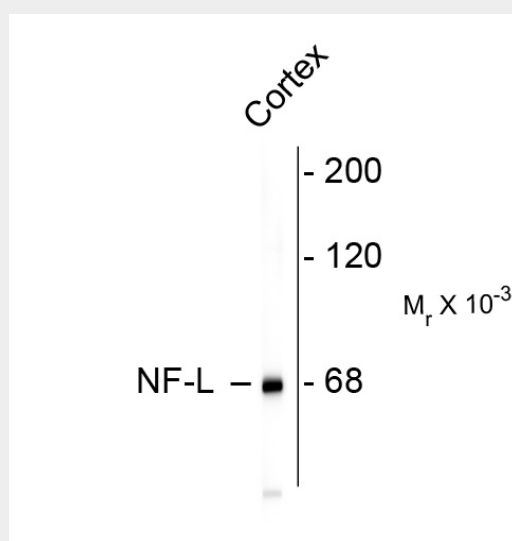
Blue Ice

Neurofilament L (NF-L) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Neurofilament L (NF-L) Antibody - Images



Western blot of rat cortex lysate showing specific immunolabeling of the ~ 68k NF-L protein.

Neurofilament L (NF-L) Antibody - Background

Neurofilaments are the 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called NF-L, NF-M and NF-H (1). NF-L is the neurofilament light or low molecular weight polypeptide and runs on SDS-PAGE gels at about 68kDa. Antibodies to NF-L are useful for identifying neuronal cells and their processes in tissue sections and in tissue culture. Mutations in the protein coding region of the human NF-L gene cause some forms of Charcot-Marie-Tooth disease (2).

Neurofilament L (NF-L) Antibody - References

1. Harris, J., Ayyub, C. and Shaw G. (1991) A molecular dissection of the carboxyterminal tails of the major neurofilament subunits NF-M and NF-H. *J Neurosci Res* 30:47-62.
2. Mersiyanova IV, Perepelov AV, Polyakov AV, Sitnikov VF, Dadali EL, Oparin RB, Petrin AN and Evgrafov OV. (2000) A new variant of Charcot-Marie-Tooth disease type 2 is probably the result of a mutation in the neurofilament-light gene. *Am. J. Hum. Genet.* 67:37-46.