



Rabbit Anti-NF-M antibody

SL0710R

Product Name:	NF-M
Chinese Name:	中分子量神经丝蛋白抗体
Alias:	Neurofilament medium polypeptide; 160 kDa neurofilament protein; neurofilament 3; Nefm; 150kDa medium; NEF 3; NEF3; NEFM; Neurofilament 3; Neurofilament medium polypeptide; Neurofilament protein medium; Neurofilament triplet M protein; Neurofilament3; NF M; NF160; Neurofilament-M; Neurofilament M; NFM; NFM_HUMAN.
文献引用 PubMed :	<p>Specific References(2) SL0710R has been referenced in 2 publications.</p> <p>[IF=2.88]Gao, Yuhua, et al. "Isolation and Characterization of Chicken Dermis-Derived Mesenchymal Stem/Progenitor Cells." BioMed Research International 2013 (2013).Chicken. PubMed:23984389</p> <p>[IF=1.06]Yuan, Quan, et al. "Human microvascular endothelial cell promotes the development of dorsal root ganglion neurons via BDNF pathway in a co-culture system." Bioscience, Biotechnology, and Biochemistry (2017): 1-8.WB;Human. PubMed:28394221</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/Test IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	102kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid

Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NF-M:101-200/916
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>Neurofilaments are the 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called neurofilament light (NF-L), neurofilament medium (NF-M) and neurofilament heavy (NF-H). Neurofilament medium runs on SDS-PAGE gels in the range 145-170 kDa, with some variation in different species. Antibodies to this protein are useful to identify neurons and their processes in tissue sections and in tissue culture. Neurofilament medium can also be useful in studies of neurofilament accumulations seen in many neurological diseases, such as Lou Gehrig's disease or Alzheimer's disease.</p> <p>Function: Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber.</p> <p>Post-translational modifications: There are a number of repeats of the tripeptide K-S-P, NFM is phosphorylated on a number of the serines in this motif. It is thought that phosphorylation of NFM results in the formation of interfilament cross bridges that are important in the maintenance of axonal caliber. Phosphorylation seems to play a major role in the functioning of the larger neurofilament polypeptides (NF-M and NF-H), the levels of phosphorylation being altered developmentally and coincidentally with a change in the neurofilament function. Phosphorylated in the head and rod regions by the PKC kinase PKN1, leading to the inhibition of polymerization.</p> <p>Similarity: Belongs to the intermediate filament family.</p> <p>SWISS: P12839</p> <p>Gene ID: 4741</p> <p>Database links:</p>

[Entrez Gene: 281347](#)Cow

[Entrez Gene: 4741](#)Human

[Entrez Gene: 18040](#)Mouse

[Entrez Gene: 24588](#)Rat

[Omim: 162250](#)Human

[SwissProt: O77788](#)Cow

[SwissProt: P07197](#)Human

[SwissProt: P08553](#)Mouse

[SwissProt: P12839](#)Rat

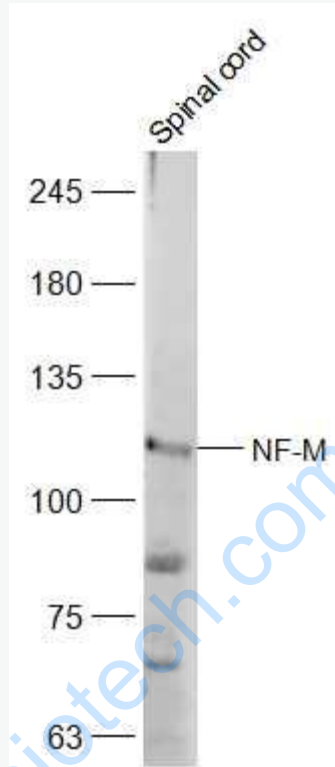
[Unigene: 458657](#)Human

[Unigene: 10971](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

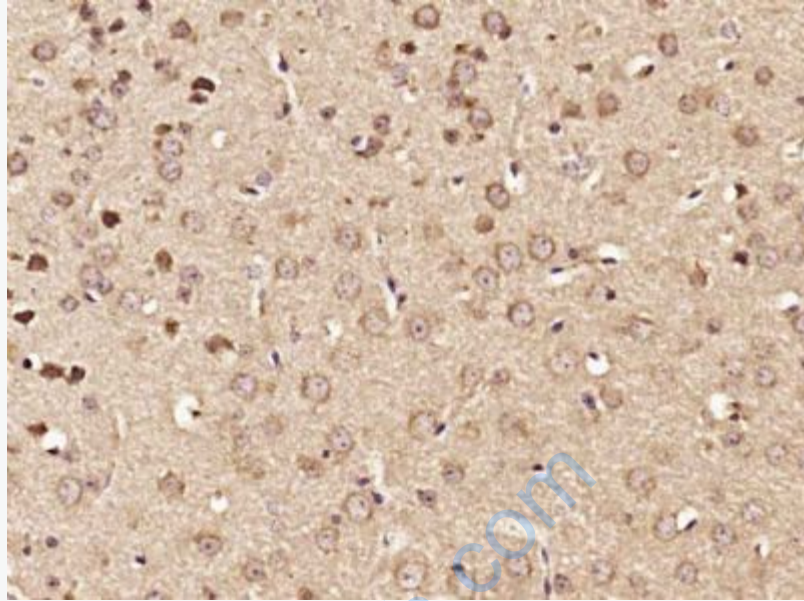
Spinal cord (Mouse) Lysate at 40 ug

Primary: Anti-NF-M (SL0710R) at 1/300 dilution

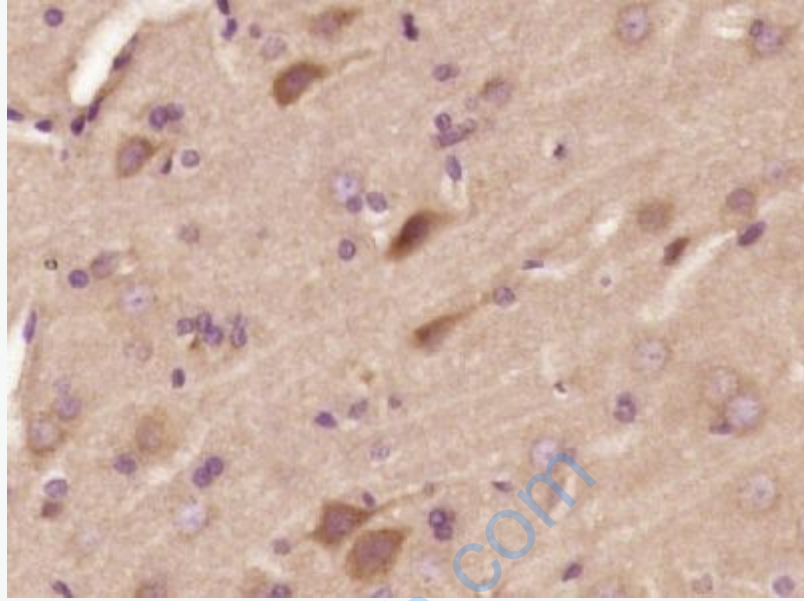
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 102 kD

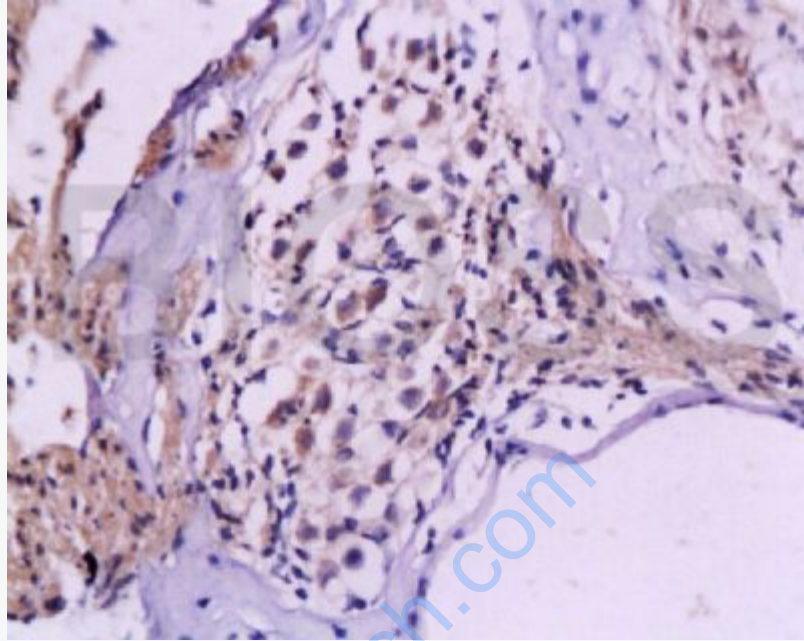
Observed band size: 112 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NFM) Polyclonal Antibody, Unconjugated (SL0710R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NF-M) Polyclonal Antibody, Unconjugated (SL0710R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat cochlea tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-NF-M/Neurofilament M Polyclonal Antibody, Unconjugated(SL0710R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining