

NF-M Rabbit pAb

NF-M Rabbit pAb
Catalog # AP52122

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P07197
Reactivity	Rat, Mouse
Predicted	Pig, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	102472
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NF-M
Epitope Specificity	101-200/916
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	4741
Other Names	Neurofilament medium polypeptide, NF-M, 160 kDa neurofilament protein, Neurofilament 3, Neurofilament triplet M protein, NEFM, NEF3, NFM
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	NEFM
Synonyms	NEF3, NFM
Function	Neurofilaments usually contain three intermediate filament proteins: NEFL, NEFM, and NEFH which are involved in the maintenance of neuronal caliber. May additionally cooperate with the neuronal intermediate filament proteins PRPH and INA to form neuronal filamentous networks (By similarity).
Cellular Location	Cytoplasm, cytoskeleton. Cell projection, axon. Perikaryon

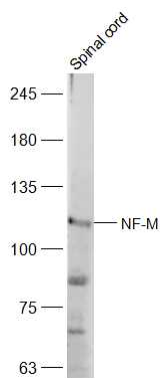
Background

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

References

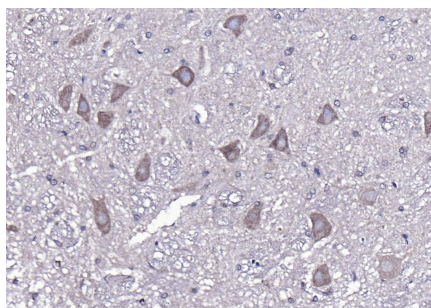
Napolitano E.W.,et al.J. Neurosci. 7:2590-2599(1987).
 Kelly B.M.,et al.J. Cell Biol. 118:397-410(1992).
 Lubec G.,et al.Submitted (SEP-2007) to UniProtKB.
 Xu Z.-S.,et al.J. Biol. Chem. 267:4467-4471(1992).
 Dong D.L.-Y.,et al.J. Biol. Chem. 268:16679-16687(1993).

Images



Sample:

Spinal cord (Mouse) Lysate at 40 ug
 Primary: Anti-NF-M (AP52122) 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 (Cerebellum of rats); 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 (Anti-NF-M) Polyclonal Antibody, Unconjugated (AP52122) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.