

Goat Anti-NEFM / NF-M Antibody
Peptide-affinity purified goat antibody
Catalog # AF2197a

Specification

Goat Anti-NEFM / NF-M Antibody - Product Information

Application	WB
Primary Accession	P07197
Other Accession	NP_001099011 , 4741 , 18040 (mouse), 24588 (rat)
Reactivity Predicted	Mouse Human, Rat, Pig, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	102472

Goat Anti-NEFM / NF-M Antibody - 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

Format

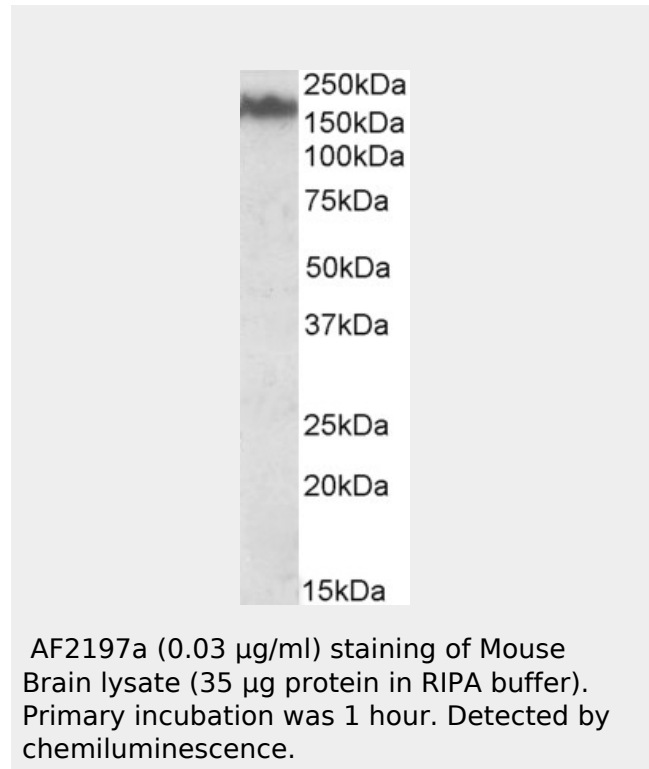
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

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

Goat Anti-NEFM / NF-M Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



Goat Anti-NEFM / NF-M Antibody - Background

Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and functionally maintain neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the medium neurofilament protein. This protein is commonly used as a biomarker of neuronal damage. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Goat Anti-NEFM / NF-M Antibody - References

Proteome analysis of the thalamus and cerebrospinal fluid reveals glycolysis dysfunction and potential biomarkers candidates for schizophrenia. Martins-de-Souza D, et al. J Psychiatr Res, 2010 May 14. PMID

Goat Anti-NEFM / NF-M Antibody - 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
{ECO:0000250|UniProtKB:P08553}. Cell projection, axon
{ECO:0000250|UniProtKB:P08553}

20471030.

Sex-specific proteome differences in the anterior cingulate cortex of schizophrenia. Martins-de-Souza D, et al. J Psychiatr Res, 2010 Apr 8. PMID 20381070.

Human variation in alcohol response is influenced by variation in neuronal signaling genes. Joslyn G, et al. Alcohol Clin Exp Res, 2010 May. PMID 20201926.

Alterations in oligodendrocyte proteins, calcium homeostasis and new potential markers in schizophrenia anterior temporal lobe are revealed by shotgun proteome analysis. Martins-de-Souza D, et al. J Neural Transm, 2009 Mar. PMID 19034380.

Association of the dopamine receptor interacting protein gene, NEF3, with early response to antipsychotic medication. Strous RD, et al. Int J Neuropsychopharmacol, 2007 Jun. PMID 16734940.

Goat Anti-NEFM / NF-M 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](#)