

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

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

Application	WB, E
Primary Accession	<a href="#">P07197</a>
Other Accession	<a href="#">NP_001099011</a> , <a href="#">4741</a> , <a href="#">18040 (mouse)</a> , <a href="#">24588 (rat)</a>
Reactivity	Mouse
Predicted	Human, Rat, Pig, Dog
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

**Dilution**

WB~~1:1000

E~~N/A

**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 - 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}

**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](#)

**Goat Anti-NEFM / NF-M Antibody - Images**

AF2197a (0.03 µg/ml) staining of Mouse Brain lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**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 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.