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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	**Mouse**
Predicted	**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 - 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).

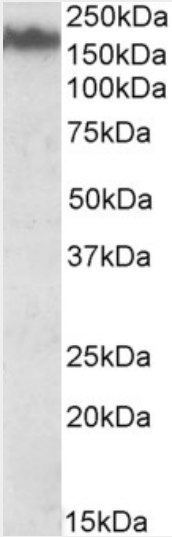
Cellular Location
Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P08553}. Cell projection, axon {ECO:0000250|UniProtKB:P08553}

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 Cytomety
- 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.
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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.
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