NF-M Recombinant Antibody [JM11-20] - Rat IgG1 (Chimeric) HA601408

Product Type:Recombinant Chimeric Antibody, primary antibodiesSpecies reactivity:Human, Mouse, Rat, Cynomolgus monkeyApplications:IHC-Fr, IHC-P, WBMolecular Wt:Predicted band size: 102 kDaClone number:JM11-20Description:Neurofilament-M (NF-M), for neurofilament medium polypeptide, a member of intermediate filament family, is a major component of neuronal cytoskeletons. Neurofilam are dynamic structures; they contain phosphorylation sites for a large number of pr kinases, including protein kinase A, protein kinase C, cyclin-dependent kinase extracellular signal regulated kinase, glycogen synthase kinase-3, and stress-active protein kinase gamma. In addition to their role in the control of axon caliber, neurofilament phosphorylation or metabolism are frequently observed in neurodegener diseases, including amyotrophic lateral sclerosis (ALS), Parkinson's disease, Alzheimer's disease.Immunogen:Synthetic peptide within Human NEFM aa 651-692 / 916.Positive control:Human cerebellum tissue, mouse cerebellum tissue, rat cerebellum tissue, Mouse & tissue lysate, Rat brain tissue lysate.
Applications: IHC-Fr, IHC-P, WB Molecular Wt: Predicted band size: 102 kDa Clone number: JM11-20 Description: Neurofilament-M (NF-M), for neurofilament medium polypeptide, a member of intermediate filament family, is a major component of neuronal cytoskeletons. Neurofilam are dynamic structures; they contain phosphorylation sites for a large number of pr kinases, including protein kinase A, protein kinase C, cyclin-dependent kinase extracellular signal regulated kinase, glycogen synthase kinase-3, and stress-activ protein kinase gamma. In addition to their role in the control of axon caliber, neurofilam may affect other cytoskeletal elements, such as microtubules and actin filaments. Chang neurofilament phosphorylation or metabolism are frequently observed in neurodegener diseases, including amyotrophic lateral sclerosis (ALS), Parkinson's disease, Alzheimer's disease. Immunogen: Synthetic peptide within Human NEFM aa 651-692 / 916. Positive control: Human cerebellum tissue, mouse cerebellum tissue, rat cerebellum tissue, Mouse the state of the state
Molecular Wt: Predicted band size: 102 kDa Clone number: JM11-20 Description: Neurofilament-M (NF-M), for neurofilament medium polypeptide, a member of intermediate filament family, is a major component of neuronal cytoskeletons. Neurofilam are dynamic structures; they contain phosphorylation sites for a large number of pr kinases, including protein kinase A, protein kinase C, cyclin-dependent kinase extracellular signal regulated kinase, glycogen synthase kinase-3, and stress-active protein kinase gamma. In addition to their role in the control of axon caliber, neurofilam may affect other cytoskeletal elements, such as microtubules and actin filaments. Change neurofilament phosphorylation or metabolism are frequently observed in neurodegener diseases, including amyotrophic lateral sclerosis (ALS), Parkinson's disease, Alzheimer's disease. Immunogen: Synthetic peptide within Human NEFM aa 651-692 / 916. Positive control: Human cerebellum tissue, mouse cerebellum tissue, rat cerebellum tissue, Mouse the
Clone number:JM11-20Description:Neurofilament-M (NF-M), for neurofilament medium polypeptide, a member of intermediate filament family, is a major component of neuronal cytoskeletons. Neurofilam are dynamic structures; they contain phosphorylation sites for a large number of pr kinases, including protein kinase A, protein kinase C, cyclin-dependent kinase extracellular signal regulated kinase, glycogen synthase kinase-3, and stress-active protein kinase gamma. In addition to their role in the control of axon caliber, neurofilam may affect other cytoskeletal elements, such as microtubules and actin filaments. Change neurofilament phosphorylation or metabolism are frequently observed in neurodegener diseases, including amyotrophic lateral sclerosis (ALS), Parkinson's disease, Alzheimer's disease.Immunogen:Synthetic peptide within Human NEFM aa 651-692 / 916.Positive control:Human cerebellum tissue, mouse cerebellum tissue, rat cerebellum tissue, Mouse filtered tissue, mouse cerebellum tissue, rat cerebellum tissue, filtered tissue, filtered tis
Description:Neurofilament-M (NF-M), for neurofilament medium polypeptide, a member of intermediate filament family, is a major component of neuronal cytoskeletons. Neurofilam are dynamic structures; they contain phosphorylation sites for a large number of pr kinases, including protein kinase A, protein kinase C, cyclin-dependent kinase extracellular signal regulated kinase, glycogen synthase kinase-3, and stress-active protein kinase gamma. In addition to their role in the control of axon caliber, neurofilam may affect other cytoskeletal elements, such as microtubules and actin filaments. Change neurofilament phosphorylation or metabolism are frequently observed in neurodegener diseases, including amyotrophic lateral sclerosis (ALS), Parkinson's disease, Alzheimer's disease.Immunogen:Synthetic peptide within Human NEFM aa 651-692 / 916.
intermediate filament family, is a major component of neuronal cytoskeletons. Neurofilan are dynamic structures; they contain phosphorylation sites for a large number of pr kinases, including protein kinase A, protein kinase C, cyclin-dependent kinase extracellular signal regulated kinase, glycogen synthase kinase-3, and stress-activ protein kinase gamma. In addition to their role in the control of axon caliber, neurofilan may affect other cytoskeletal elements, such as microtubules and actin filaments. Chang neurofilament phosphorylation or metabolism are frequently observed in neurodegener diseases, including amyotrophic lateral sclerosis (ALS), Parkinson's disease, Alzheimer's disease.Immunogen:Synthetic peptide within Human NEFM aa 651-692 / 916.Positive control:Human cerebellum tissue, mouse cerebellum tissue, rat cerebellum tissue, Mouse b
Positive control: Human cerebellum tissue, mouse cerebellum tissue, rat cerebellum tissue, Mouse to the second
Subcellular location: Cell projection, Cytoplasm, Cytoskeleton, Intermediate filament.
Database links: SwissProt: P07197 Human P08553 Mouse P12839 Rat
Recommended Dilutions: IHC-Fr 1:500 IHC-P 1:500 WB 1:5,000-1:10,000
Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction: Store at +4 °C after thawing. Aliquot store at -20 °C. Avoid repeated freeze / thaw cycles.
Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

5 Service mail:support@huabio.cn

が 作 安 生物 www.huabio.cn

Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

HA601408 - Page 2

Images

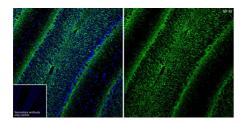


Fig1: Application: IHC-Fr Species: Mouse Site: Cerebellum Sample: Frozen section Antibody concentration: 1:500 Antigen retrieval: Not required

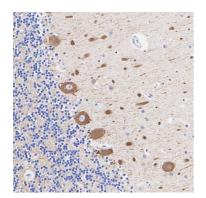


Fig2: Immunohistochemical analysis of paraffin-embedded human cerebellum tissue with Rat anti-NF-M antibody (HA601408) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA601408) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

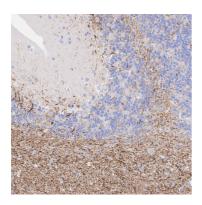


Fig3: Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue with Rat anti-NF-M antibody (HA601408) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA601408) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn



Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

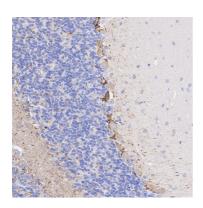


Fig4: Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue with Rat anti-NF-M antibody (HA601408) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA601408) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Fig5: Western blot analysis of NF-M on different lysates with Rat anti-NF-M antibody (HA601408) at 1/5,000 dilution.

Lane 1: Mouse brain tissue lysate Lane 2: Mouse liver tissue lysate (negative) Lane 3: Rat brain tissue lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 102 kDa Observed band size: 140 kDa

Exposure time: 23 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA601408) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rat IgG H&L - HRP Secondary Antibody (HA1023) at 1/5,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- 1. Li D et al. NEFM DNA methylation correlates with immune infiltration and survival in breast cancer. Clin Epigenetics. 2021 May
- 2. Sohrabi N et al. Regulatory Role of Insulin on Endogenous L1 ORF1 and NEFM Gene Expression through PI3K Signaling Pathway Specifically in Neuroblastoma Cell Line. Iran J Public Health. 2023 Mar

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

5 Service mail:support@huabio.cn



Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

