bs-0710R **[Primary Antibody]**

NF-M Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4741 **SWISS:** P07197

Target: NF-M

Immunogen: KLH conjugated synthetic peptide derived from human NF-M: 101-200/916.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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.

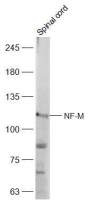
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse, Rat (predicted: Human, Pig, Cow)

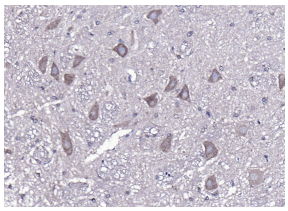
Predicted MW.: 102 kDa

Subcellular Location: Cytoplasm

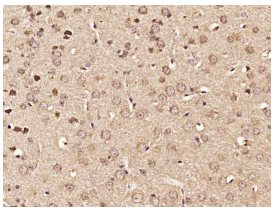
VALIDATION IMAGES



Sample: Spinal cord (Mouse) Lysate at 40 ug
Primary: Anti-NF-M (bs-0710R) 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 (bs-0710R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (NFM) Polyclonal Antibody, Unconjugated (bs-0710R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=4.8]** Lei Wang. et al. Cognitive impairment is associated with BDNF-TrkB signaling mediating synaptic damage and reduction of amino acid neurotransmitters in heart failure. FASEB J. 2023 Dec;38(1):e23351 IF ;Rat. 38085181
- **[IF=3.659]** Wang, Xiao-feng. et al. Active constituent of Polygala tenuifolia attenuates cognitive deficits by rescuing hippocampal neurogenesis in APP/PS1 transgenic mice. Bmc Complem Altern M. 2021 Dec;21(1):1-15 IF ;Mouse. 34696749

- **[IF=2.88]** Gao, Yuhua, et al. "Isolation and Characterization of Chicken Dermis-Derived Mesenchymal Stem/Progenitor Cells." BioMed Research International 2013 (2013). Other ;="Chicken". 23984389
- **[IF=1.06]** Yuan, Quan, et al. "Human microvascular endothelial cell promotes the development of dorsal root ganglion neurons via BDNF pathway in a co-culture system." Bioscience, Biotechnology, and Biochemistry (2017): 1-8. WB ;="Human". 28394221
- **[IF=0]** Kang J et al. Matrine protects retinal ganglion cells from apoptosis in experimental optic neuritis. 29 August 2019, PREPRINT (Version 1) available at Research Square. IF ;Rat. doi:10.21203/rs.2.13687/v1