

bs-0708R**[Primary Antibody]****NF-H Rabbit pAb****Bioss**
ANTIBODIES

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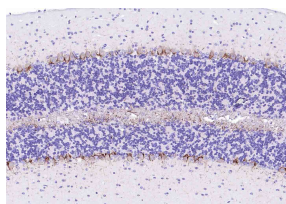
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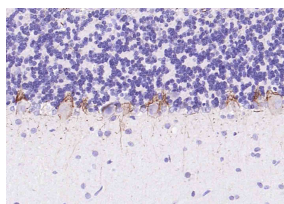
400-901-9800

— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500)
Clonality: Polyclonal		IHC-F (1:100-500)
GeneID: 4744	SWISS: P12036	IF (1:100-500)
Target: NF-H		Reactivity: Mouse, Rat (predicted: Human)
Immunogen: KLH conjugated synthetic peptide derived from human NF-H: 901-1000/1026.		
Purification: affinity purified by Protein A		Predicted MW.: 118 kDa
Concentration: 1mg/ml		Subcellular Location: Cytoplasm
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 can be defined as the intermediate or 10nm filaments found in specifically in neuronal cells. When visualised using an electron microscope, neurofilaments appear as 10nm diameter fibres of indeterminate length that generally have fine wispy protrusions from their sides. They are particularly abundant in axons of large projection neurons. They probably function to provide structural support for neurons and their synapses and to support the large axon diameters required for rapid conduction of impulses down axons. Neurofilaments are composed of a mixture of subunits, which usually includes the three neurofilament triplet proteins neurofilament light (NFL), neurofilament medium (NFM) and neurofilament heavy (NFH). Neurofilaments may also include smaller amounts of peripherin, alpha internexin, nestin and in some cases vimentin. Antibodies to the various neurofilament subunits are very useful cell type markers since the proteins are among the most abundant of the nervous system, are expressed only in neurons, and are biochemically very stable. Some studies have shown that levels of neurofilament heavy and neurofilament light are elevated in patients with Alzheimer's disease, frontotemporal lobe dementia, and vascular dementia.		

— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); 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 (NF-H) Polyclonal Antibody, Unconjugated (bs-0708R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); 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 (NF-H) Polyclonal Antibody, Unconjugated (bs-0708R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=8.3]** Yitong Yuan. et al. Nanozyme Hydrogels Promote Nerve Regeneration in Spinal Cord Injury by Reducing Oxidative Stress. ACS APPL MATER INTER. 2024;16(44):59949–59961 IF ;Mouse. 39454206
- **[IF=5.682]** Borgonetti, Vittoria. et al. Posttranscriptional Regulation of Gene Expression Participates in the Myelin Restoration in Mouse Models of Multiple Sclerosis: Antisense Modulation of HuR and HuD ELAV RNA Binding Protein. MOL NEUROBIOL. 2023 Jan;:1-17 WB,IF ;Mouse. 36696009
- **[IF=4.605]** Laura E. Bruijn. et al. Extreme Diversity of the Human Vascular Mesenchymal Cell Landscape. J Am Heart Assoc. 2020;9:e017094 IHC ;Human. 33190596
- **[IF=5.14]** Zhao, Hua, et al. "Transplantation of Cerebral Dopamine Neurotrophic Factor Transduced BMSCs in Contusion Spinal Cord Injury of Rats: Promotion of Nerve Regeneration by Alleviating Neuroinflammation." Molecular neurobiology (2014): 1-13. IHC ;="Rat". 25421210
- **[IF=4.73]** Erdal Ayhan Işık. et al. Use of Erythropoietin and Fibrin Glue Mixture for Peripheral Nerve Repair. Plast Reconstr Surg. 2022 Feb;149(2):395-403 IHC ;Rat. 34898529