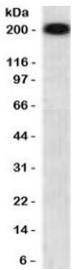
NF-H Antibody / NF200 Antibody [clone NFHP-1R] (V7413)

Catalog No.	Formulation	Size
V7413-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7413-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7413SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7413IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

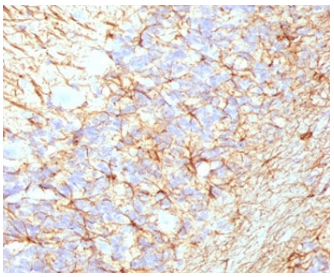
Recombinant RABBIT MONOCLONAL

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	NFHP-1R
Purity	Protein A affinity
UniProt	P12036
Localization	Cytoplasmic, membranous
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Prediluted IHC only format: incubate for 30 min at RT (1)
Limitations	This NF-H Antibody / NF 200 Antibody is available for research use only.



NF-H Antibody in Human Brain WB. Western blot testing of human brain lysate with NF-H Antibody / NF200 Antibody. A prominent band is observed at approximately 200 kDa, consistent with the apparent molecular weight of neurofilament heavy chain. This NF-H Antibody demonstrates detection of neurofilament 200 in human brain tissue.



NF-H Antibody in Human Cerebellum IHC. Immunohistochemistry staining of FFPE human cerebellum tissue with NF-H Antibody / NF200 Antibody. HIER was performed in pH 6 citrate buffer for 10-20 min followed by cooling at RT for 20 min. The observed staining highlights NF-H expression in neuronal structures of the human cerebellum and supports detection of neurofilament 200 by IHC.

Description

NF-H Antibody / NF200 Antibody detects neurofilament heavy chain (NF-H), a neuronal intermediate filament protein encoded by the NEFH gene. Also commonly referred to as neurofilament 200 or NF200, NF-H is a major structural component of the neuronal cytoskeleton. Neurofilaments are particularly abundant within axons, where they contribute to mechanical stability, organization of neuronal processes and regulation of axonal caliber.

Neurofilaments are composed primarily of light, medium and heavy subunits, commonly designated NF-L, NF-M and NF-H. Neurofilament heavy chain has an apparent molecular weight of approximately 200 kDa and contains an extended C-terminal tail rich in repeated lysine-serine-proline motifs. Extensive phosphorylation of this region influences neurofilament organization and interactions with other cytoskeletal components, helping establish the specialized architecture of mature axons.

NF200 Ab is widely used in neuroscience research to investigate neuronal structures and axonal organization. NF-H expression is particularly useful for visualizing neuronal processes and examining neuronal differentiation, maturation and nervous system architecture. Neurofilament proteins are also studied in peripheral nerves and neural or neuroendocrine tissues, providing useful markers for research involving neuronal lineage and differentiation.

Changes in NF-H expression, organization and phosphorylation can accompany neuronal injury and neurodegeneration. Disruption of normal neurofilament transport may contribute to abnormal protein accumulation and altered axonal structure. NF-H is therefore investigated in studies of neuroaxonal damage and neurological disorders, including amyotrophic lateral sclerosis, multiple sclerosis and other conditions involving neuronal or axonal degeneration.

Clone NFHP-1R is a recombinant rabbit monoclonal antibody developed against recombinant human neurofilament heavy chain. The antibody has been evaluated by Western blot and immunohistochemistry for detection of human NF-H. Recombinant production provides a defined antibody sequence and supports consistent performance across manufacturing lots. NSJ Bioreagents supplies antibodies for neuroscience and neural marker research. An NF-H Antibody can be used to investigate neurofilament 200 expression, axonal structure, neuronal cytoskeleton organization and mechanisms associated with neuroaxonal injury.

For additional research on NF-H expression, axonal structure and neurofilament biology, see our Neurofilament Heavy Chain Antibody / Axonal Cytoskeleton Marker page.

Application Notes

The stated application concentrations are suggested starting points. Titration of the NF-H Antibody / NF200 Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human protein (heavy subunit) was used as the immunogen for the recombinant NF-H antibody.

Storage

Store the recombinant NF-H antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

NF-H antibody, Neurofilament 200 antibody, NEFH antibody, Neurofilament Heavy Chain antibody, NF200 antibody

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