

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NF-H in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 1016103
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human NF-H peptide Accession # P12036
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

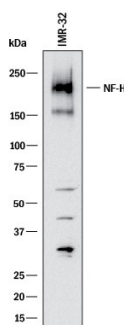
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	IMR-32 human neuroblastoma cell line
Simple Western	5 µg/mL	Human motor cortex and human hippocampus

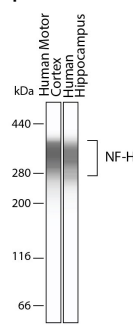
DATA

Western Blot



Detection of Human NF-H by Western Blot. Western blot shows lysates of IMR-32 human neuroblastoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human NF-H Monoclonal Antibody (Catalog # MAB31082) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for NF-H at approximately 210 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

Simple Western



Detection of Human NF-H by Simple Western™. Simple Western shows lysates of human motor cortex and human hippocampus, loaded at 0.2 mg/ml. A specific band was detected for NF-H at approximately 270-350 kDa (as indicated) using 20 µg/mL of Mouse Anti-Human NF-H Monoclonal Antibody (Catalog # MAB31082). This experiment was conducted under reducing conditions and using the 66-440 kDa separation system.



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The human Neurofilament Heavy chain, also known as NF-H and NEFH, is a phosphorylated cytoskeletal intermediate filament protein that is expressed in neurons. Neurofilaments are trimers that always contain the 68 kDa NF-L and variably contain 125 kDa NF-M and 200 kDa NF-H. In the region used for immunization, mouse and rat NF-H are each 93% identical to human NF-H.