

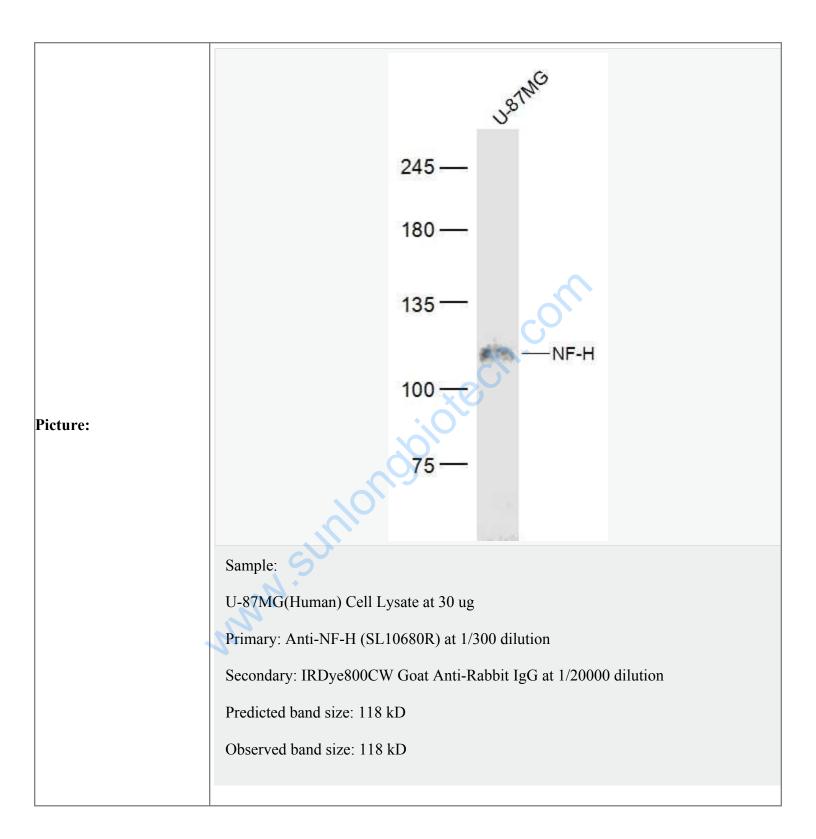
Rabbit Anti-NF-H antibody

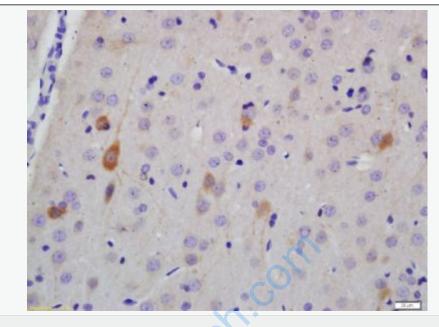
SL10680R

NF-H
高分子量神经丝蛋白抗体
Neurofilament 200; 200 kDa neurofilament protein; 200 kD Neurofilament Heavy; NEFH; NEFH; NF200; NF-200; Neurofilament H; Neurofilament heavy polypeptide 200kD; Neurofilament heavy polypeptide 200kDa; Neurofilament heavy polypeptide; Neurofilament triplet H protein; Neurofilament triplet H protein; Hypophosphorylated Neurofilament H; NF H; NF-H; NFH; NFH_HUMAN; KIAA0845.
Specific References(2) SL10680R has been referenced in 2 publications.
[IF=3.37]Liu, Yi, et al. "Conserved Dopamine Neurotrophic Factor-Transduced
Mesenchymal Stem Cells Promote Axon Regeneration and Functional Recovery of
Injured Sciatic Nerve." PLOS ONE 9.10 (2014): e110993.IHC-P;Rat.
PubMed:25343619
[IF=3.26]Liu, Xin-Qi, et al. "Regulation of neuroendocrine cells and neuron factors in
the ovary by zinc oxide nanoparticles." Toxicology Letters (2016).IHC-P;Chicken.
PubMed:27215404
Rabbit
Polyclonal
Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,Sheep,
WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-
Cyt=1:ug/TestICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.
118kDa
cytoplasmic

immunogen:	KLH conjugated synthetic peptide derived from human NF-H:21-120/1026
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. Function: Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber. NF-H has an important function in mature axons that is not subserved by the two smaller NF proteins. Post-translational modifications: There are a number of repeats of the tripeptide K-S-P, NFH is phosphorylated on a number of the serines in this motif. It is thought that phosphorylation of NFH results in the formation of interfilament cross bridges that are important in the maintenance of axonal caliber. Phosphorylation seems to play a major role in the functioning of the larger neurofilament folypeptides (NF-M and NF-H), the levels of phosphorylation being altered developmentally and coincident with a change in the neurofil

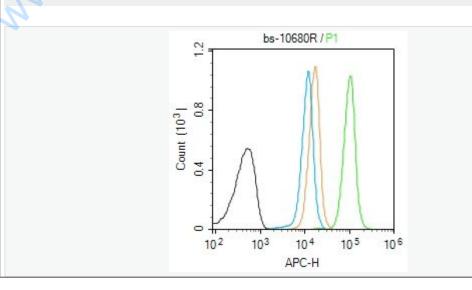
genetic and environmental factors.
Similarity: Belongs to the intermediate filament family.
SWISS: P12036
Gene ID: 4744
Database links:
Entrez Gene: 4744 Human
Entrez Gene: 4744 Human Entrez Gene: 380684 Mouse Entrez Gene: 24587 Rat Omim: 162230 Human SwissProt: P12036 Human
Entrez Gene: 24587 Rat
<u>Omim: 162230</u> Human
SwissProt: P12036 Human
SwissProt: P19246 Mouse
SwissProt: P16884 Rat
Unigene: 198760 Human
Unigene: 298283 Mouse
Unigene: 108194 Rat
1st -
Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.





Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-NF-H Polyclonal Antibody, Unconjugated(SL10680R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and

DAB(C-0010) staining



Blank control (Black line): Molt4 (Black).

Primary Antibody (green line):Rabbit Anti-NF-H antibody (SL10680R)

Dilution:1µg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647

Dilution: 1µg /test.

Protocol

NNN

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.