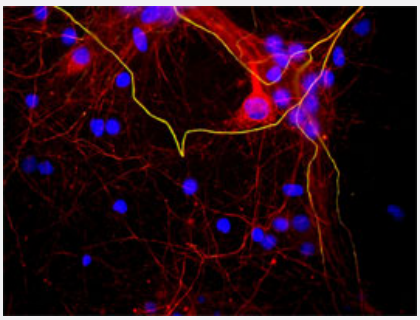
NEFH monoclonal antibody, clone AH1

Catalog # MAB5386 Size 100 uL

Applications



Immunofluorescence

Mixed neuron/glial cultures stained with NEFH monoclonal antibody, clone AH1 (Cat # MAB5386) (green) and also stained with rabbit neurofilament NF-L polyclonal antibody (red).
The NF-L antibody stains neurofilaments in both axons and dendrites, and so can reveal neuronal cell bodies, while NEFH monoclonal antibody, clone AH1 (Cat # MAB5386) binds to only heavily phosphorylated forms of NF-H which are localized to mature axonal neurofilaments.
In this image a few axons course from left to right and top to bottom- since they contain both NF-L and phosphorylated NF-H they appear golden in color.
Blue shows the distribution of DNA.



Western Blot (Tissue lysate)

Strip blots of crude rat spinal cord extract stained with NEFH monoclonal antibody, clone AH1 (Cat # MAB5386).
All three antibodies bind to a prominent band with an apparent SDS-PAGE molecular weight of 200 KDa.

Specification

Product Description	Mouse monoclonal antibody raised against NEFH.
Immunogen	Bovine NEFH.
Host	Mouse
Theoretical MW (kDa)	200-220

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Reactivity	Bovine
Form	Liquid
Isotype	IgG1
Recommend Usage	Western Blot (1:10000) Immunofluorescence (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (5 mM sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry
- Immunofluorescence

  Mixed neuron/glial cultures stained with NEFH monoclonal antibody, clone AH1 (Cat # MAB5386) (green) and also stained with rabbit neurofilament NF-L polyclonal antibody (red).
  The NF-L antibody stains neurofilaments in both axons and dendrites, and so can reveal neuronal cell bodies, while NEFH monoclonal antibody, clone AH1 (Cat # MAB5386) binds to only heavily phosphorylated forms of NF-H which are localized to mature axonal neurofilaments.
  In this image a few axons course from left to right and top to bottom- since they contain both NF-L and phosphorylated NF-H they appear golden in color.
  Blue shows the distribution of DNA.
- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Tissue lysate)

  Strip blots of crude rat spinal cord extract stained with NEFH monoclonal antibody, clone AH1 (Cat # MAB5386).
  All three antibodies bind to a prominent band with an apparent SDS-PAGE molecular weight of 200 KDa.

Publication Reference

- A molecular dissection of the carboxyterminal tails of the major neurofilament subunits NF-M and NF-H.

  Harris J, Ayyub C, Shaw G.

  Journal of Neuroscience Research 1991 Sep; 30(1):47.

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