

# Datasheet



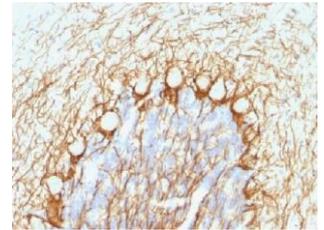
Mouse mAb to **Neurofilaments (NF-H), myomesin**  
Clone **NE14**  
Isotype **IgG1-κ**

## Source

A BALB/c mouse was immunized with a crude neurofilament preparation from porcine spinal cord.

## Specifications

NE14 reacts specifically with the heavily phosphorylated KSP/KEP segment at the C-terminus of the 200 kDa subunit (NF-H) of neurofilaments. After dephosphorylation of neurofilaments with alkaline phosphatase NE14 no longer binds. Neuronal intermediate filaments are typically referred to as a neurofilament triplet of low (L), middle (M) and high (H) molecular weight subunits of 68kDa, 160 kDa and 200 kDa, respectively. Like other anti-NF antibodies, NE-14. recognizes a phosphorylated epitope on a component of sarcomers of striated muscle, identified as myomesin, but also reported as the closely associated titin. MABs raised to titin also cross react with NF.



**Figure 1:** Human cerebellum stained with NE14 (paraffin)

## Species reactivity

Positive: cat, chicken, cow, gerbil, guinea pig, human, mouse, pig, rabbit, rat.

## Applications

NR4 can be applied for immunohistochemistry on frozen and paraffin sections and for Western blot analysis. Neuromas, gangliogliomas, neuroblastomas and medulloblastomas are positive.

Frozen sections	Paraffin sections	Western blot
+	Citrate	+

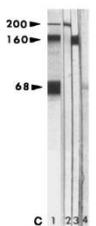
## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium azide.

Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- Immunoblotting (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes).



**Figure 2:** W. blot lane 2 shows NE14

## Positive control

Brain, neuroblastoma.

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## References

- Debus E., et al, *Differentiation* **25(2)**: 193-203 (1983).
- Ma D. et al, *Neuroscience* **68(1)**: 135-149 (1995).