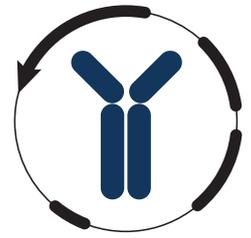


Datasheet



Mouse mAb to **Neurofilaments (NF-L)**
Clone **NR4**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with a crude neurofilament preparation from porcine spinal cord, containing the triplet polypeptides of 200, 145 and 68 kDa.

Specifications

NR4 reacts specifically with the 68 kDa subunit (NF-L) present in all neurofilaments. Neuronal intermediate filaments are typically referred to as a neurofilament triplet of low (L), middle (M) and high (H) molecular weight subunits of 68kDa, 150 kDa and 200 kDa, respectively. Neurofilaments constitute the main structural elements of neuronal axons and dendrites.

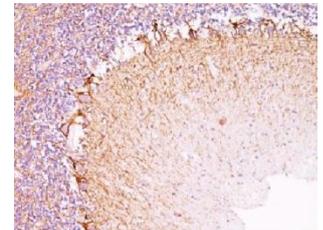


Figure 1: Human cerebellum stained with NR4 (paraffin)

Species reactivity

Positive: cat, chicken, cow, gerbil, human, mouse, pig, 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).

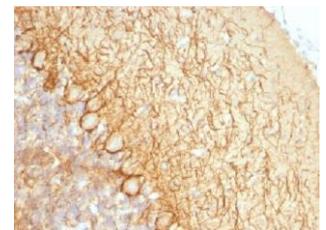


Figure 2: Rat cerebellum stained with NR4 (paraffin)

Positive control

Brain, neuroblastoma.

Datasheet



References

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