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## 36-11064: Monoclonal Antibody to Neurofilament (H+L) (Neuronal Marker)(RT-97 + NR-4)

Clone Name: Monoclonal
RT-97 + NR-4
Application: FACS,IHC

**Reactivity:** Human, Mouse, Rat

Gene: NEFH
Gene ID: 4744
Uniprot ID: P12036
Format: Purified

Alternative Name: NEFH,KIAA0845,NFH

**Isotype:** Mouse IgG1, kappa + Mouse IgG1, kappa

Triton-X 100 insoluble proteins of Rat brain (RT-97); Neurofilaments from porcine spinal cord

Immunogen Information: (NR-4)

## **Description**

This MAb reacts with a 200kDa and 68kDa protein, identified as heavy and light sub-units of neurofilaments (NF-H & NF-L). Neurofilaments make up the main structural elements of axons and dendrites and are found in neurons, peripheral nerves, and sympathetic ganglion cells. Neurofilaments consist of three major subunits with molecular weights of 68kDa (NF-L), 160kDa (NF-M) and 200kDa (NF-H). Anti-neurofilament stains a number of neural, neuroendocrine, and endocrine tumors. Neuromas, ganglioneuromas, ganglioneuroblastomas, and neuroblastomas stain positively for anti-neurofilament. Neurofilaments are also present in paragangliomas as well as adrenal and extra-adrenal pheochromocytomas. Carcinoids, neuroendocrine carcinomas of the skin, and oat cell carcinomas of the lung also express neurofilament.

## **Product Info**

Amount:  $100 \mu g$ 

**Purification:** Affinity Chromatography

**Content:** 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

toxic.

**Storage condition :** Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

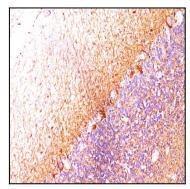
## **Application Note**

Flow Cytometry (1-2ug/million cells); Immunohistochemistry (Formalin-fixed) (0.25-0.5ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

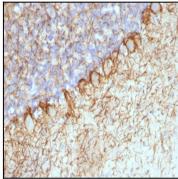


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Formalin-fixed, paraffin-embedded human Cerebellum stained with Neurofilament Monoclonal Antibody (RT-97 + NR-4).



Formalin-fixed, paraffin-embedded Rat Cerebellum stained with Neurofilament Monoclonal Antibody (RT-97  $\pm$  NR-4).