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# 36-1511: Monoclonal Antibody to Neurofilament, phospho (NF-H) (Neuronal Marker)(Clone : NE14)

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|---|---|
| **Clonality :** | Monoclonal |
| **Clone Name :** | NE14 |
| **Application :** | WB,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 |
| **Immunogen Information :** | Crude neurofilament prepaRation from porcine spinal cord |

## Description

This MAb reacts with a 200kDa protein, identified as heavy sub-unit of neurofilaments (NF-H). It reacts specifically with the phosphorylated KSP/KEP segment at the C-terminus of the heavy subunit (NF-H) of neurofilaments. After dephosphorylation of neurofilaments with alkaline phosphatase, this Ab no longer binds. 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, gangliogliomas, 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

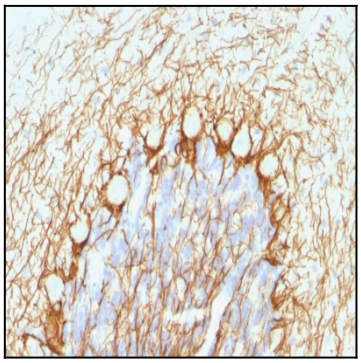
| | |
|---|---|
| **Amount :** | 100 µg |
| **Purification :** | Affinity Chromatography |
| **Content :** | 100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic. |
| **Storage condition :** | Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles. |

## Application Note

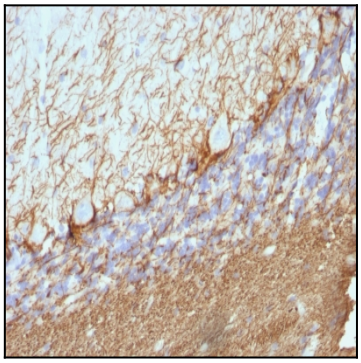
Western Blot (1-2ug/ml); Flow Cytometry (1-2ug/million cells); Immunohistochemistry (Formalin-fixed) (0.25-0.5ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

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Formalin-fixed, paraffin-embedded human Cerebellum stained with Neurofilament Monoclonal Antibody (NE14).



Formalin-fixed, paraffin-embedded Rat Cerebellum stained with Neurofilament Monoclonal Antibody (NE14).

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