

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

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

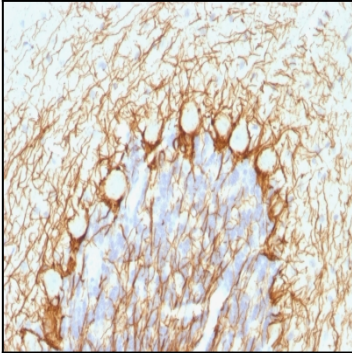
This MAb reacts with a 200kDa protein, identified as heavy sub-unit of neurofilaments (NF-H). It reacts specifically with the phosphorylated KSP/KEP segment at the C-terminus of the heavy subunit (NF-H) of neurofilaments. After dephosphorylation of neurofilaments with alkaline phosphatase, this Ab no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

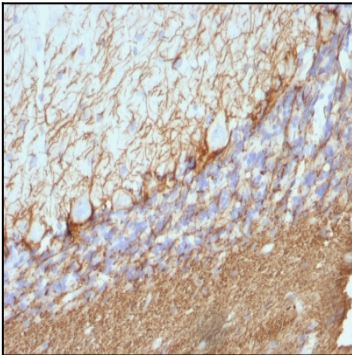
Amount :	100 µg
Purification :	Affinity Chromatography
Content :	100 µg in 500 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

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°C followed by cooling at RT for 20 minutes);



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



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