

Anti-NEFH Polyclonal Antibody 2

Product Details

Ig Type: IgG
Reactivity: Human,Rat (predicted:Mouse,Dog,Pig,Cow,Rabbit,Sheep)
Molecular Weight: Theoretical: 118 kDa. Actual: 200 kDa.
Purification: Protein A purified

Applications

1. Blank control (Black line): Molt4 (Black).
Primary Antibody (green line): Rabbit Anti-NF-H antibody (TMAB-01212)
Dilution: 1 $\mu\text{g}/10^6$ cells;
Isotype Control Antibody (orange line): Rabbit IgG.
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647
Dilution: 1 $\mu\text{g}/\text{test}$.

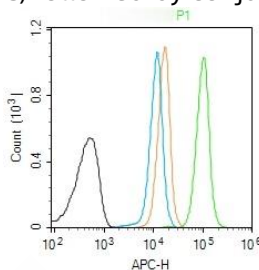
Protocol

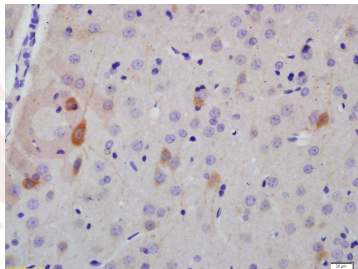
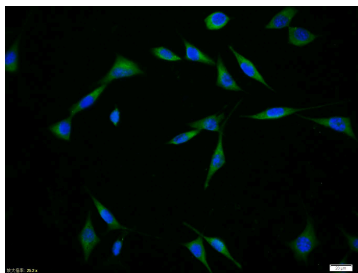
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

Verified Activity:

2. Tissue/cell: SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (NF-H) polyclonal Antibody, Unconjugated (TMAB-01212) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.

3. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;
Incubation: Anti-NF-H Polyclonal Antibody, Unconjugated (TMAB-01212) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.





Application: FCM,ICC/IF,IF,IHC-Fr,IHC-P

Recommended FCM=1 µg/test; ICC/IF=1:100-500; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human NF-H

Antigen Species: Human

Gene ID: 4744

Uniprot ID: P12036

Synonyms: NF-H;200 kDa neurofilament protein;NFH;Neurofilament heavy polypeptide;Neurofilament triplet H protein;NEFH;KIAA0845

Biology Area: Intermediate Filaments,Axon marker,Alzheimer's disease,Neurodegenerative disease, Neurofilaments

Research Background

Neurofilaments can be defined as the intermediate or 10nm filaments found in specifically in neuronal cells. When visualised using an electron microscope, neurofilaments appear as 10nm diameter fibres of indeterminate length that generally have fine wispy protrusions from their sides. They are particularly abundant in axons of large projection neurons. They probably function to provide structural support for neurons and their synapses and to support the large axon diameters required for rapid conduction of impulses down axons. Neurofilaments are composed of a mixture of subunits, which usually includes the three neurofilament triplet proteins neurofilament light (NFL), neurofilament medium (NFM) and neurofilament heavy (NFH). Neurofilaments may also include smaller amounts of peripherin, alpha internexin, nestin and in some cases vimentin. Antibodies to the various neurofilament subunits are very useful cell type markers since the proteins are among the most abundant of the nervous system, are expressed only in neurons, and are biochemically very stable. Some studies have shown that levels of neurofilament heavy and neurofilament light are elevated in patients with Alzheimer's disease, frontotemporal lobe dementia, and vascular dementia.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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