

Neurofilament heavy polypeptide Rabbit pAb

CatalogNo: YT3086

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IHC, IF, ELISA

MW

- 112kD (Calculated)

Isotype

- IgG

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

IHC 1:100-1:300

ELISA 1:40000

IF 1:50-200

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from human NF-H. AA range:923-972

Specificity

NF-H Polyclonal Antibody detects endogenous levels of NF-H protein.

Target Information

Gene name NEFH

Protein Name Neurofilament heavy polypeptide

Organism	Gene ID	UniProt ID
Human	4744;	P12036;
Mouse		P19246;

Cellular Localization Cytoplasm , cytoskeleton . Cell projection , axon .

Tissue specificity Brain ,Eye ,Testis ,

Function Disease:Defects in NEFH are a cause of susceptibility to amyotrophic lateral sclerosis (ALS) [MIM:105400]. ALS is a neurodegenerative disorder affecting upper and lower motor neurons , and resulting in fatal paralysis. Sensory abnormalities are absent. Death usually occurs within 2 to 5 years. The etiology is likely to be multifactorial , involving both genetic and environmental factors. ,Function:Neurofilaments usually contain three intermediate filament proteins: L , M , and H which are involved in the maintenance of neuronal caliber. NF-H has an important function in mature axons that is not subserved by the two smaller NF proteins. ,online information:ALS genetic mutations db ,polymorphism:The number of repeats is shown to vary between 29 and 30. ,PTM:Phosphorylation seems to play a major role in the functioning of the larger neurofilament polypeptides (NF-M and NF-H) , the levels of phosphorylation being altered developmentally and coincident with a change in the neurofilament function. ,PTM:There are a number of repeats of the tripeptide K-S-P , NFH is phosphorylated on a number of the serines in this motif. It is thought that phosphorylation of NFH results in the formation of interfilament cross bridges that are important in the maintenance of axonal caliber. ,similarity:Belongs to the intermediate filament family. ,

| Validation Data

| Contact information

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