

## NF-H Polyclonal Antibody

<b>Catalog No :</b>	YT3086
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	NF-H
<b>Fields :</b>	>>Amyotrophic lateral sclerosis;>>Pathways of neurodegeneration - multiple diseases
<b>Gene Name :</b>	NEFH
<b>Protein Name :</b>	Neurofilament heavy polypeptide
<b>Human Gene Id :</b>	4744
<b>Human Swiss Prot No :</b>	P12036
<b>Mouse Swiss Prot No :</b>	P19246
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human NF-H. AA range:923-972
<b>Specificity :</b>	NF-H Polyclonal Antibody detects endogenous levels of NF-H protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 112kD

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**Cell Pathway :** Amyotrophic lateral sclerosis (ALS);

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**Background :** Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and functionally maintain neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the heavy neurofilament protein. This protein is commonly used as a biomarker of neuronal damage and susceptibility to amyotrophic lateral sclerosis (ALS) has been associated with mutations in this gene. [provided by RefSeq, Oct 2008],

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**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 phosphor

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**Subcellular Location :** Cytoplasm, cytoskeleton . Cell projection, axon .

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**Expression :** Brain, Eye, Testis,

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## Products Images