

## NF-M Polyclonal Antibody

<b>Catalog No :</b>	YT3088
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;ELISA;IHC
<b>Target :</b>	NF-M
<b>Fields :</b>	>>Amyotrophic lateral sclerosis;>>Pathways of neurodegeneration - multiple diseases
<b>Gene Name :</b>	NEFM
<b>Protein Name :</b>	Neurofilament medium polypeptide
<b>Human Gene Id :</b>	4741
<b>Human Swiss Prot No :</b>	P07197
<b>Mouse Swiss Prot No :</b>	P08553
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human NF-M. AA range:542-591
<b>Specificity :</b>	NF-M Polyclonal Antibody detects endogenous levels of NF-M 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>	WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000
<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)

**Observed Band :** 110kD

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

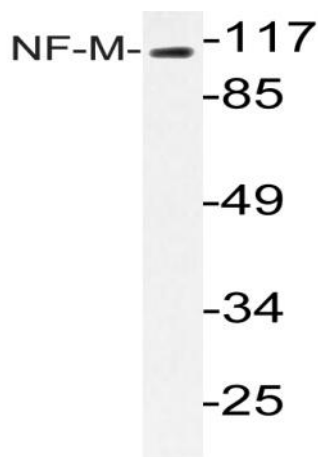
**Background :** neurofilament, medium polypeptide(NEFM) Homo sapiens Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and functionally maintain neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the medium neurofilament protein. This protein is commonly used as a biomarker of neuronal damage. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Oct 2008],

**Function :** function:Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber.,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, NFM is phosphorylated on a number of the serines in this motif. It is thought that phosphorylation of NFM results in the formation of interfilament cross bridges that are important in the maintenance of axonal caliber.,similarity:Belongs to the intermediate filament family.,

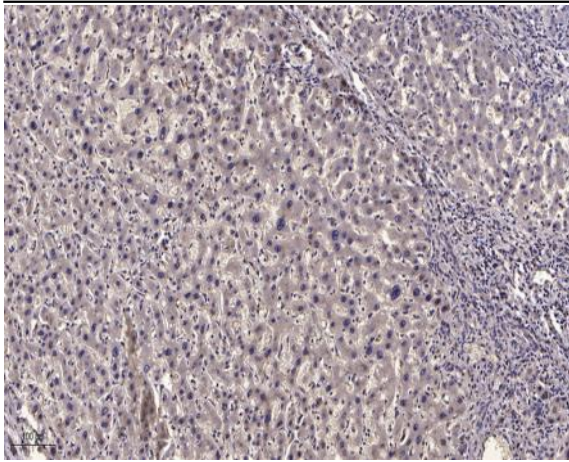
**Subcellular Location :** Cytoplasm, cytoskeleton . Cell projection, axon .

**Expression :** Brain,Brain cortex,Fetal brain cortex,

## Products Images



Western blot analysis of lysate from MCF-7 cells, using NF-M antibody.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).