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Anti-Neurofilament heavy polypeptide Rabbit mAb [37F08]

Catalog No.: A52234

Basic Information

Catalog No. (Cat.No.)	A52234
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	Neurofilament heavy polypeptide,NF-H,NF-H,Neurofilament high molecular weight protein

Product Information

Target	Neurofilament heavy polypeptide
Molecular Weight(Calculated)	110 kDa
Molecular Weight(Observed)	180-200 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	37F08
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Neurofilament heavy chain
Gene Name	*NEFH*
Domain	NA
Background	NEFH (Neurofilament heavy polypeptide, neurofilament heavy chain) belongs to intermediate-filament cytoskeletal protein family and builds axonal skeleton to sustain axonal caliber and structural stability in mature neurons. Highly specific for mature neurons, NEFH polymerizes with NF-L and NF-M to form neurofilament networks filling axonal cytoplasm and determining axon diameter for proper nerve impulse conduction. Abundant phosphorylation sites locate at C-terminal tail and modulate neurofilament assembly. Upon nerve injury or neurodegeneration, NEFH degrades and leaks into cerebrospinal fluid; axonal lesions cause mis-localization of NEFH.