

Anti-NF68 Antibody (Monoclonal, NR4)

Catalog # ABO10456

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	P19527
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human, Rat, Pig
Clonality	Monoclonal
Format	Lyophilized
Description	Mouse IgG monoclonal antibody for NF68, neurofilament, light polypeptide (NEFL) detection. Tested with WB, IHC-P, IHC-F in Human;pig;rat. No cross reactivity with other proteins.
Reconstitution	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Additional Information

Gene ID	83613
Other Names	Neurofilament light polypeptide, NF-L, 68 kDa neurofilament protein, Neurofilament triplet L protein, Nefl, Nf68, Nfl
Calculated MW	61335
Application Details	Immunohistochemistry(Paraffin-embedded Section), 2-4 μ g/ml, Human, pig, rat, By Heat Immunohistochemistry(Frozen Section), 2-4 μ g/ml, Human, pig, rat, - Western blot, 1-2 μ g/ml, Human, pig, rat
Source	Eukaryota
Protein Name	Neurofilament light polypeptide
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.
Clone Names	NR4
Immunogen	Pig spinal cord.
Purification	Ascites
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20°C for one year. After reconstitution, at 4°C for one month. It can also

Sequence Similarities

be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Belongs to the intermediate filament family.

Protein Information

Name	Nefl
Synonyms	Nf68, Nfl
Function	Neurofilaments usually contain three intermediate filament proteins: NEFL, NEFM, and NEFH which are involved in the maintenance of neuronal caliber. May additionally cooperate with the neuronal intermediate filament proteins PRPH and INA to form neuronal filamentous networks (By similarity).
Cellular Location	Cell projection, axon {ECO:0000250 UniProtKB:P08551}. Cytoplasm, cytoskeleton {ECO:0000250 UniProtKB:P08551}
Tissue Location	Expressed in the dorsal root ganglion neurons (at protein level).

Background

Neurofilaments are composed of 3 neuron-specific proteins with apparent molecular masses of 68 kD(NFL), 125 kD(NFM) and 200 kD(NFH) on SDS-gel electrophoresis. And they have a role in the maturation of regenerating myelinated axons. Neurofilament 68(NF68), also called Neurofilament Protein, Light Chain(NFL). It is one of the most abundant cytoskeletal components of the neuron. Mutations in this gene were reported as a cause for autosomal dominant Charcot-Marie-Tooth type 2E(CMT2E) linked to chromosome 8p21. NFL was identified repeatedly in both screenings and found to interact with Myotubularin-related 2 gene, MTMR2 in both Schwann cells and neurons.

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