

Mouse anti-Rat Neurofilament NF-L ms Monoclonal Antibody | anti-NEFL antibody

Anti-Neurofilament L (NF-L)

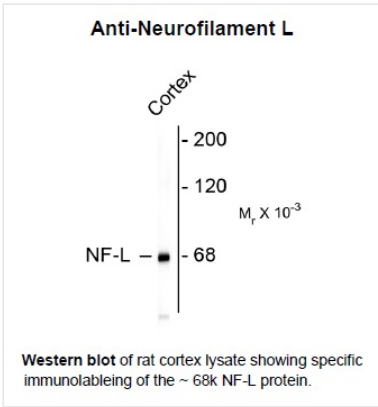
CATALOG # AAA72747	HOST Mouse	REACTIVITY Rat	APPLICATIONS Immunofluorescence, Western Blot
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PRODUCT SYNONYMS

Neurofilament NF-L ms; Monoclonal Antibody; Anti-Neurofilament L (NF-L); anti-NEFL antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Rat
Clonality	Monoclonal
Isotype	IgG1
Clone Number	DA2
Specificity	Specific for the ~68k Neurofilament L protein.
Purity/Purification	Total IgG fraction (Unpurified, concentrated culture supernatant.)
Form/Format	Liquid containing 10mM sodium azide
Sequence Length	549
Applicable Applications for anti-NEFL antibody	IF (Immunofluorescence), WB (Western Blot)
Antigen	Preparation of porcine intermediate filaments
Immunogen Information	Preparation of porcine NF-L
Immunogen Species	Pig
Reactivity Assumed Based on 100% Sequence Homology	Chicken, human, mouse
Species Reactivity Note	The antibody has been directly tested for reactivity in bovine, chicken, human, mouse and rat tissues.
Biological Significance	Neurofilaments are the 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called NF-L, NF-M and NF-H (1). NF-L is the neurofilament light or low molecular weight polypeptide and runs on SDS-PAGE gels at about 68kDa. Antibodies to NF-L are useful for identifying neuronal cells and their processes in tissue sections and in tissue culture. Mutations in the protein coding region of the human NF-L gene cause some forms of Charcot-Marie-Tooth disease (2).
Preparation and Storage	Store at -20 degree C in undiluted aliquots; stable for at least 1 year. Avoid freeze/thaw cycles.



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-NEFL antibody	Mouse monoclonal antibody
References	• Harris, J., Ayyub, C. and Shaw G. (1991) A molecular dissection of the carboxyterminal tails of the major neurofilament subunits NF-M and NF-H. J Neurosci Res 30:47-62. • Mersiyanova IV, Perepelov AV, Polyakov AV, Sitnikov VF, Dadali EL, Oparin RB, Petrin AN and Evgrafov OV. (2000) A new variant of Charcot-Marie-Tooth disease type 2 is probably the result of a mutation in the neurofilament-light gene. Am. J. Hum. Genet. 67:37-46.

NCBI AND UNIPROT INFORMATION

NCBI GI #	143811426
NCBI GeneID	4747
UniProt Accession #	P02547; P07196
Molecular Weight	68
NCBI Official Full Name	Neurofilament light polypeptide
NCBI Official Synonym Full Names	neurofilament, light polypeptide
NCBI Official Symbol	NEFL
NCBI Official Synonym Symbols	NFL; NF-L; NF68; CMT1F; CMT2E
NCBI Protein Information	neurofilament light polypeptide; neurofilament subunit NF-L; neurofilament triplet L protein; neurofilament protein, light chain; neurofilament, light polypeptide 68kDa; light molecular weight neurofilament protein
UniProt Protein Name	Neurofilament light polypeptide
UniProt Gene Name	NEFL
UniProt Synonym Gene Names	NF-L
UniProt Entry Name	NFL_PIG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.