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Mouse Monoclonal Antibody to NEFM

Purified Mouse Monoclonal Antibody
Catalog # AO2474a

Product Information

Application	WB, FC, ICC, E
Primary Accession	P07197
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1B6B12
Isotype	Mouse IgG1
Calculated MW	102472
Description	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. ;
Immunogen	Purified recombinant fragment of human NEFM (AA: 779-916) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide
Application Note	ELISA: 1/10000; WB: 1/500 - 1/2000; ICC: 1/50 - 1/200; FCM: 1/200 - 1/400

Additional Information

Gene ID	4741
Other Names	NFM; NEF3; NF-M
Dilution	WB~~1:1000 FC~~1:10~50 ICC~~N/A E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse Monoclonal Antibody to NEFM is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

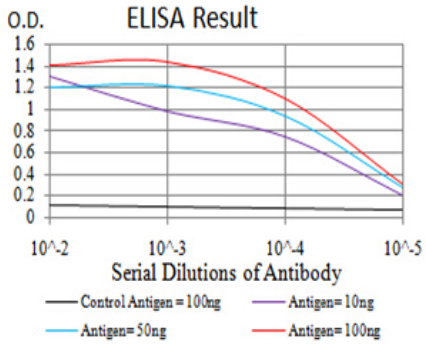
Name	NEFM

Synonyms	NEF3, NFM
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	Cytoplasm, cytoskeleton. Cell projection, axon. Perikaryon

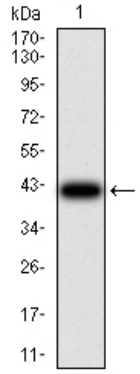
References

1.J Neuropathol Exp Neurol. 2004 Jul;63(7):759-74. ; 2.Neurosci Lett. 2003 Nov 13;351(2):125-9.;

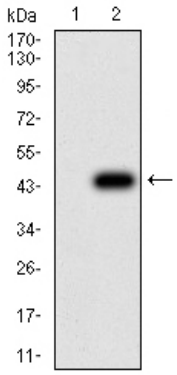
Images



Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

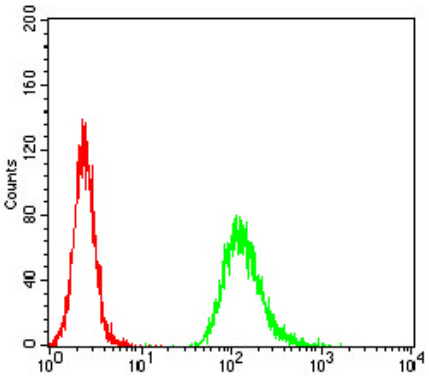


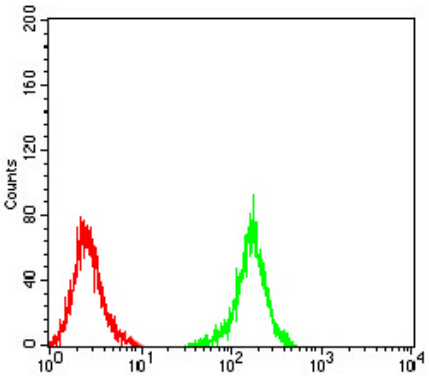
Western blot analysis using NEFM mAb against human NEFM (AA: 779-916) recombinant protein. (Expected MW is *** kDa)



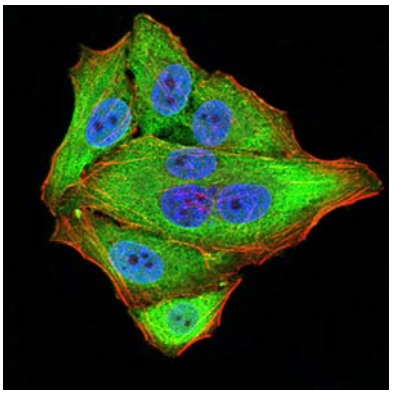
Western blot analysis using NEFM mAb against HEK293 (1) and NEFM (AA: 779-916)-hIgGFc transfected HEK293 (2) cell lysate.

Flow cytometric analysis of Hela cells using NEFM mouse mAb (green) and negative control (red).





Flow cytometric analysis of Raji cells using NEFM mouse mAb (green) and negative control (red).



Immunofluorescence analysis of Hela cells using NEFM mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.