

For Research Use Only

NFIA Monoclonal antibody

Catalog Number: 66999-1-Ig **Featured Product**



Basic Information

Catalog Number: 66999-1-Ig	GenBank Accession Number: BC022264	Purification Method: Protein G purification
Size: 150ul , Concentration: 2400 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4774	CloneNo.: 3A6D7
Source: Mouse	Full Name: nuclear factor I/A	Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Isotype: IgG1	Calculated MW: 498 aa, 55 kDa	
Immunogen Catalog Number: AG17873	Observed MW: 60-70 kDa	

Applications

Tested Applications: IP, WB, ELISA	Positive Controls:
Species Specificity: Human, rat, mouse, pig, rabbit	WB : HeLa cells, mouse cerebellum tissue, fetal human brain tissue, Jurkat cells, pig brain tissue, rat brain tissue, mouse brain tissue, rabbit brain tissue
	IP : HeLa cells,

Background Information

The NFI (nuclear factor I) family consists of four members in vertebrates (NFI-A, NFI-B, NFI-C and NFI-X), and the four NFI genes are expressed in unique patterns during mouse embryogenesis and in the adult. Four isoforms of NFIA were found in human and they play various roles in DNA replication, DNA-dependent transcription via their DNA binding property. Multiple residues of NFIA can be phosphorylated resulting in mild shifts of its practical molecular weight. Recent finding also revealed its neuroprotective function in NMDA-induced neuronal damage. The calculated molecular weight of NFIA is 55 kDa, However the size of the proteins cross-linked to the adenoviral NF-I element ranged from 60 to 80 kDa . The larger size observed by us could be due to the oligo protein complex, which would increase the size by 15-20 kDa. (PMID: 11447215)

Storage

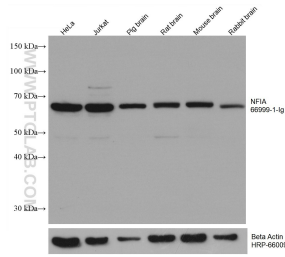
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

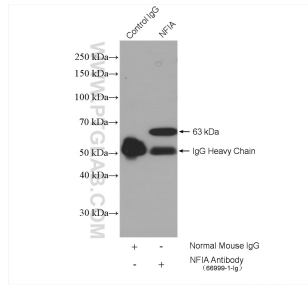
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

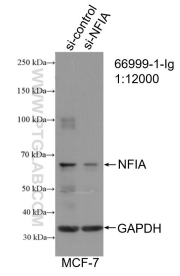
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66999-1-Ig (NFIA antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



IP result of anti-NFIA (IP:66999-1-Ig, 5ug; Detection:66999-1-Ig 1:500) with HeLa cells lysate 1600 ug.



WB result of NFIA antibody (66999-1-Ig; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NFIA transfected MCF-7 cells.