

For Research Use Only

# NFIA Monoclonal antibody

Catalog Number: 66999-1-Ig

Featured Product

1 Publications



## Basic Information

**Catalog Number:**

66999-1-Ig

**GenBank Accession Number:**

BC022264

**Purification Method:**

Protein G purification

**Size:**

150ul, Concentration: 2810 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;

**GeneID (NCBI):**

4774

**CloneNo.:**

3A6D7

**Source:**

Mouse

**UNIPROT ID:**

Q12857

**Recommended Dilutions:**

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

**Isotype:**

IgG1

**Full Name:**

nuclear factor I/A

**Immunogen Catalog Number:**

AG17873

**Calculated MW:**

498 aa, 55 kDa

**Observed MW:**

60-70 kDa

## Applications

**Tested Applications:**

WB, IP, ELISA

**Positive Controls:**

WB : HeLa cells, mouse cerebellum tissue, fetal human brain tissue, Jurkat cells, pig brain tissue, rat brain tissue, mouse brain tissue, rabbit brain tissue

**Cited Applications:**

WB

IP : HeLa cells,

**Species Specificity:**

Human, rat, mouse, pig, rabbit

**Cited Species:**

human

## 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)

## Notable Publications

Author	Pubmed ID	Journal	Application
Po Hu	38657025	Sci Transl Med	WB

## 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

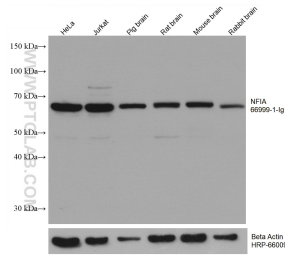
For technical support and original validation data for this product please contact:

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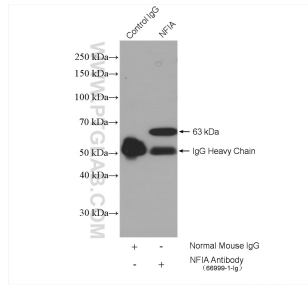
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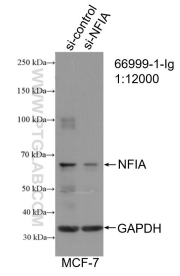
## Selected Validation Data



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.