

For Research Use Only

NFIA Polyclonal antibody

Catalog Number: 11750-1-AP

4 Publications



Basic Information

Catalog Number:

11750-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 367 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2346

GenBank Accession Number:

BC022264

GeneID (NCBI):

4774

UNIPROT ID:

Q12857

Full Name:

nuclear factor I/A

Calculated MW:

498 aa, 55 kDa

Observed MW:

60-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:50-1:500

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB: A431 cells, HeLa cells, Jurkat cells, L02 cells, mouse liver tissue

IP: A431 cells,

IHC: mouse brain tissue, human prostate cancer tissue, human gliomas tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

The NF1 (nuclear factor I) family consists of four members in vertebrates (NF1-A, NF1-B, NF1-C and NF1-X), and the four NF1 genes are expressed in unique patterns during mouse embryogenesis and in the adult. Four isoforms of NF1A were found in human and they play various roles in DNA replication, DNA-dependent transcription via their DNA binding property. Multiple residues of NF1A can be phosphorylated resulting in mild shifts of its practical molecular weight. Recent finding also revealed its neuroprotective function in NMDA-induced neuronal damage. Catalog# 11750-1-AP is a rabbit polyclonal antibody raised against N-terminal of human original NF1A. The calculated molecular weight of NF1A is 55 kDa, However the size of the proteins cross-linked to the adenoviral NF-1 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
Hitoshi Gotoh	36050761	FEBS Lett	IHC
Daniel J Foster	32816599	Cell Cycle	WB
Hongliang Zhang	33794884	Cancer Cell Int	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

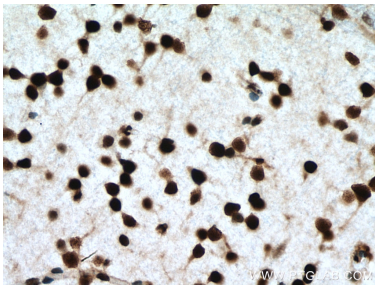
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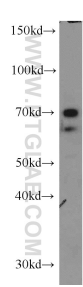
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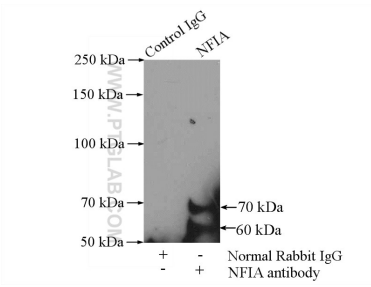
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11750-1-AP (NFIA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



A431 cells were subjected to SDS PAGE followed by western blot with 11750-1-AP (NFIA antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-NFIA (IP:11750-1-AP, 4ug; Detection:11750-1-AP 1:500) with A431 cells lysate 2000ug.