

For Research Use Only

# NFIA Polyclonal antibody

Catalog Number: 11750-1-AP **4 Publications**



## Basic Information

<b>Catalog Number:</b> 11750-1-AP	<b>GenBank Accession Number:</b> BC022264	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 550 µg/ml by Nanodrop and 367 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 4774	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> nuclear factor I/A	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 498 aa, 55 kDa	
<b>Immunogen Catalog Number:</b> AG2346	<b>Observed MW:</b> 60-70 kDa	

## Applications

<b>Tested Applications:</b> IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> CoIP, IHC, WB	<b>WB:</b> A431 cells, HeLa cells, Jurkat cells, L02 cells, mouse liver tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IP:</b> A431 cells,
<b>Cited Species:</b> human, mouse	<b>IHC:</b> mouse brain tissue, human prostate cancer tissue, human gliomas tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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. Catalog# 11750-1-AP is a rabbit polyclonal antibody raised against N-terminal of human original NFIA. 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
Hitoshi Gotoh	36050761	FEBS Lett	IHC
Daniel J Foster	32816599	Cell Cycle	WB
Hongliang Zhang	33794884	Cancer Cell Int	WB

## Storage

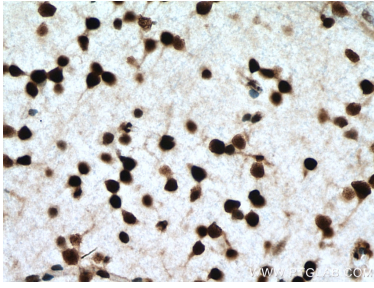
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

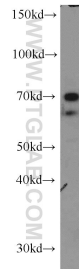
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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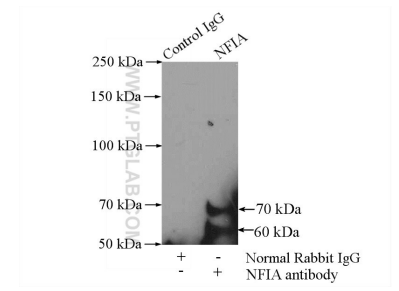
## Selected Validation Data



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.