

For Research Use Only

# DFF45/DFFA Polyclonal antibody

Catalog Number: 10191-2-AP

Featured Product

2 Publications



## Basic Information

**Catalog Number:**

10191-2-AP

**Size:**

650 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG0244

**GenBank Accession Number:**

BC000037

**GeneID (NCBI):**

1676

**UNIPROT ID:**

O00273

**Full Name:**

DNA fragmentation factor, 45kDa,  
alpha polypeptide

**Calculated MW:**

37 kDa

**Observed MW:**

37 kDa, 45 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:16000

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

IHC 1:20-1:200

IF 1:20-1:200

## Applications

**Tested Applications:**

IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

human

**Cited Species:**

human

**Positive Controls:**

**WB:** A549 cells, HeLa cells, HEK-293 cells, SKOV-3  
cells

**IP:** HEK-293 cells,

**IHC:** human prostate cancer tissue,

**IF:** HEK-293 cells,

**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

Apoptosis is accompanied by shrinkage and fragmentation of the cells and nuclei and degradation of the chromosomal DNA into nucleosomal units. DNA fragmentation factor (DFF), heterodimer of 40-kDa (DFFB) and 45-kDa (DFFA) subunits, is one of the major endonucleases responsible for internucleosomal DNA cleavage during apoptosis. DFFA is the substrate for caspase-3 and triggers DNA fragmentation during apoptosis. DFF activated after cleavage of DFFA by caspase-3 followed by its dissociation from DFFB. DFFB has been found to trigger both DNA fragmentation and chromatin condensation during apoptosis. DFFA appears to be a 45-kDa protein despite the predicated MW of 37 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hao He	31974591	Mol Med Rep	WB
Zhang Jianjun J	20687965	Mol Cancer	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

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

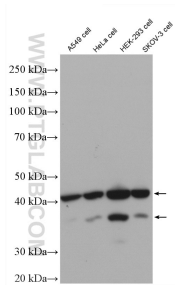
T: 4006900926

E: Proteintech-CN@ptglab.com

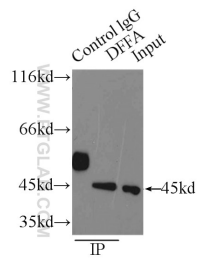
W: ptgcn.com

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

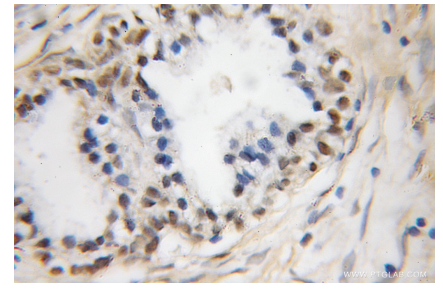
## Selected Validation Data



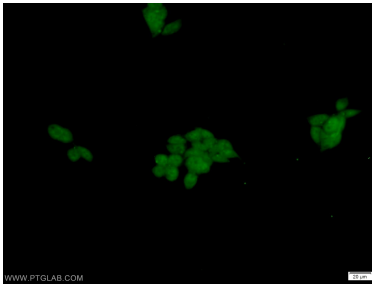
Various lysates were subjected to SDS PAGE followed by western blot with 10191-2-AP (DFF45/DFFA antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP result of anti-DFF45/DFFA (IP:10191-2-AP, 3ug; Detection:10191-2-AP 1:1000) with HEK-293 cells lysate 2500ug.



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 10191-2-AP (DFF45/DFFA antibody) at dilution of 1:100 (under 10x lens).



Immunofluorescent analysis of HEK-293 cells using 10191-2-AP (DFF45/DFFA antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).