

For Research Use Only

DFFA/DFF45 Polyclonal antibody

Catalog Number: 10191-2-AP

Featured Product

2 Publications



Basic Information

Catalog Number:

10191-2-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop and 400 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human

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

Positive Controls:

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

IP : HEK-293 cells,

IHC : human prostate cancer tissue,

IF/ICC : HEK-293 cells,

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

*** 20ul sizes contain 0.1% BSA

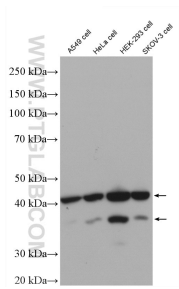
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

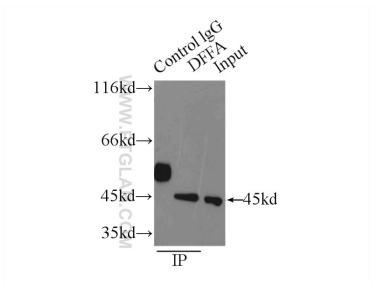
E: proteintech@ptglab.com
W: ptglab.com

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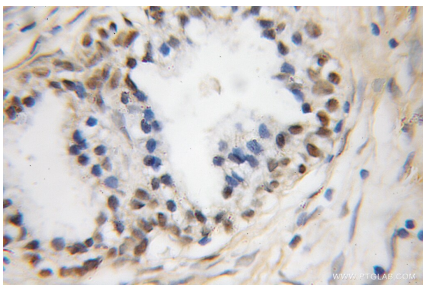
Selected Validation Data



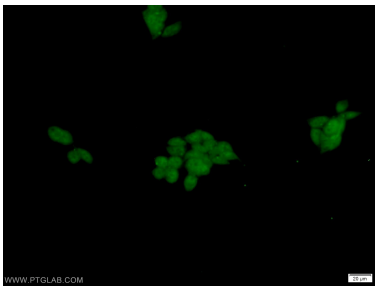
Various lysates were subjected to SDS PAGE followed by western blot with 10191-2-AP (DFF45/DFFA antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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).