For Research Use Only

AIF Polyclonal antibody

Catalog Number:17984-1-AP Featured Product 80 Publications

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Basic Information

Catalog Number:
17984-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12400

GenBank Accession Number:
BC111065

GeneID (NCBI):
9131

UNIPROT ID:
O95831

Full Name:
apoptosis-inducing factor, mitochondrion-associated, 1

Calculated MW:
609 aa, 66 kDa

Observed MW:
67 kDa, 57 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:8000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:100-1:400
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, sheep

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 : HeLa cells, NIH/3T3 cells

IP : HeLa cells,

IHC : human kidney tissue, mouse kidney tissue, mouse stomach tissue, rat kidney tissue

IF/ICC : HeLa cells,

Background Information

Apoptosis-inducing factor (AIF) is one of the mitochondrial proteins to be released into the cytosol during apoptosis, and it is discovered as the first protein that regulates caspase-independent apoptosis(PMID:20494118). AIF is encoded as a 67 kDa protein that contains a mitochondrial localization signal (MLS) in the N-terminus.It is cleaved from the 62 kDa to the 57 kDa form following ischemic injury and translocated from the mitochondria to the nucleus in a calpain-dependent manner(PMID: 25101006).

Notable Publications

Author	Pubmed ID	Journal	Application
Han Liao	26415619	Chem Biol Interact	WB
Juan M Gonzalez-Morena	36282364	Apoptosis	IF
Yu Zhao	33113431	Biomed Pharmacother	WB

Storage

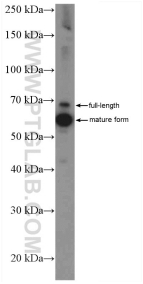
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

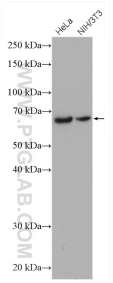
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

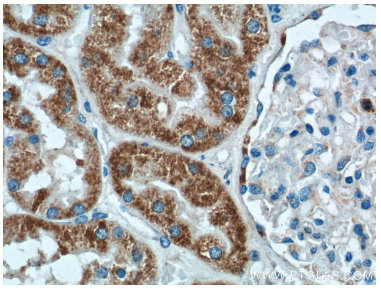
Selected Validation Data



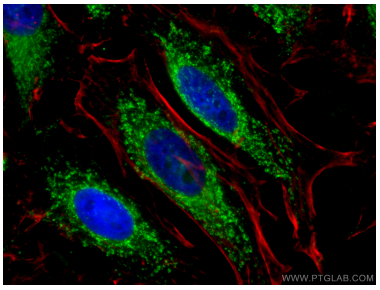
HeLa cells were subjected to SDS PAGE followed by western blot with 17984-1-AP (AIF antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



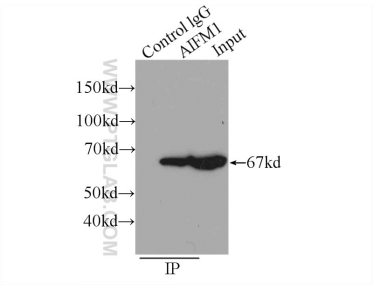
Various lysates were subjected to SDS PAGE followed by western blot with 17984-1-AP (AIF antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



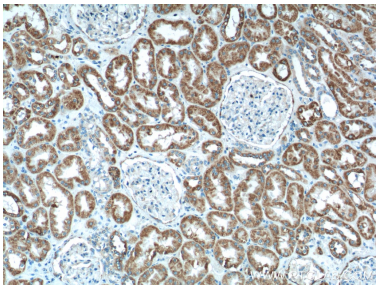
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 17984-1-AP (AIF Antibody) at dilution of 1:200 (under 40x lens).



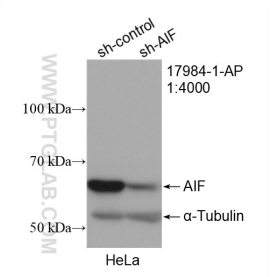
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using AIF antibody (17984-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



IP result of anti-AIF (IP:17984-1-AP, 3ug; Detection:17984-1-AP 1:2000) with HeLa cells lysate 1320ug.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 17984-1-AP (AIF Antibody) at dilution of 1:200 (under 10x lens).



WB result of AIF antibody (17984-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AIF transfected HeLa cells.