For Research Use Only

AIF Polyclonal antibody

Catalog Number:17984-1-AP Featured Product 67 Publications

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Basic Information

Catalog Number:
17984-1-AP

Size:
150ul , Concentration: 500 μg/ml by Nanodrop and 393 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12400

GenBank Accession Number:
BC111065

GeneID (NCBI):
9131

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 1:50-1:500

Applications

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

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, sheep, mouse

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,

IF : 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

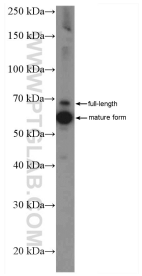
Storage

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

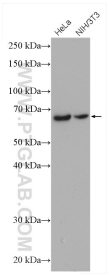
*** 20ul sizes contain 0.1% BSA

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

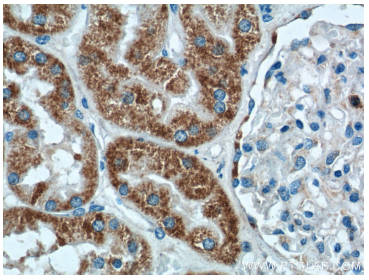
Selected Validation Data



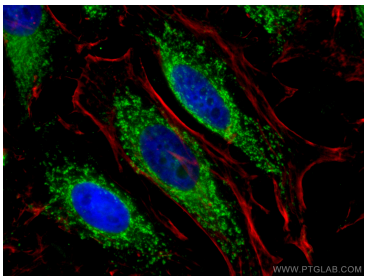
HeLa cells were subjected to SDS PAGE followed by western blot with 17984-1-AP (AIF antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



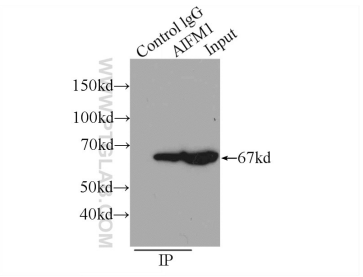
Various lysates were subjected to SDS PAGE followed by western blot with 17984-1-AP (AIF antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



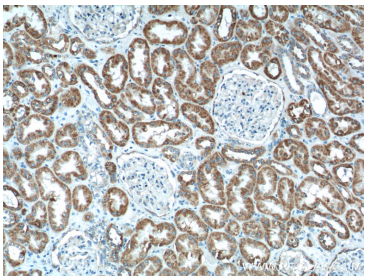
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 17984-1-AP (AIF Antibody) at dilution of 1:200 (under 40x lens).



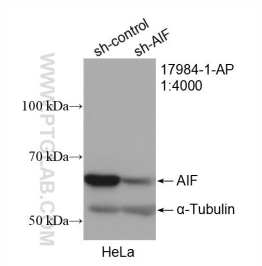
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using AIF antibody (17984-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).



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.