

For Research Use Only

AIF Monoclonal antibody

Catalog Number: 67791-1-Ig

Featured Product

6 Publications



Basic Information

Catalog Number:

67791-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG2a

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:

Protein A purification

CloneNo.:

8C12B2

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:1000-1:4000

IF-P 1:200-1:800

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat, pig, canine

Cited Species:

human, rat, pig

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: LNCaP cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH-3T3 cells, MDCK cells, Pig brain cells

IHC: human kidney tissue, human stomach cancer tissue

IF-P: human kidney tissue,

IF/ICC: HeLa cells, HCT 116 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:19332058).

Notable Publications

Author	Pubmed ID	Journal	Application
Zhongren Xu	35671636	Redox Biol	WB
Xu Ji	39986055	Ecotoxicol Environ Saf	WB
Yinmin Chen	39351873	J Hypertens	WB, IHC

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

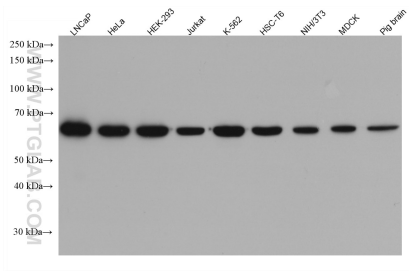
For technical support and original validation data for this product please contact:

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

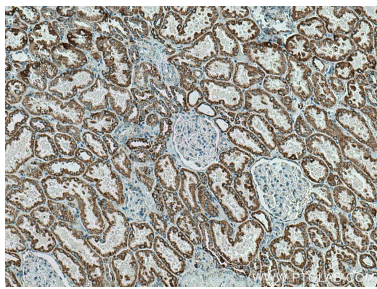
E: proteintech@ptglab.com
W: ptglab.com

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

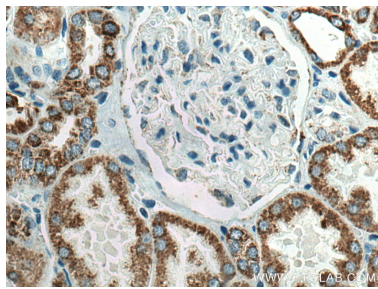
Selected Validation Data



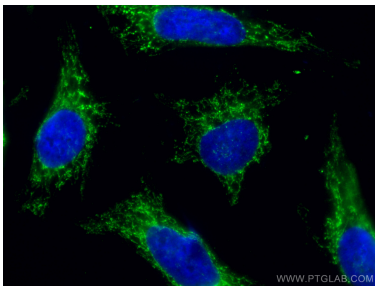
Various lysates were subjected to SDS PAGE followed by western blot with 67791-1-Ig (AIF antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



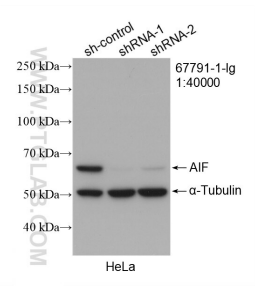
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 67791-1-Ig (AIF antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



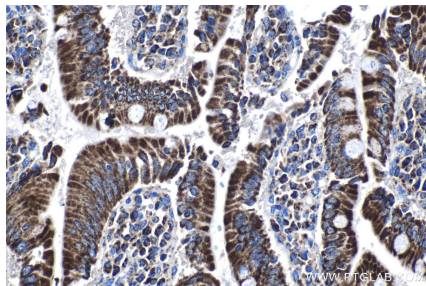
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 67791-1-Ig (AIF antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



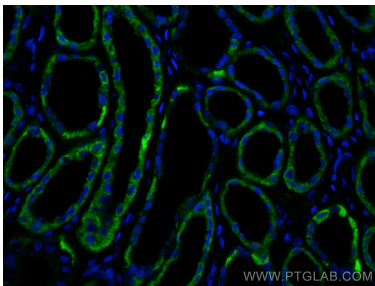
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using AIF antibody (67791-1-Ig, Clone: 8C12B2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



WB result of AIF antibody (67791-1-Ig: 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AIF transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 67791-1-Ig (AIF antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using AIF antibody (67791-1-Ig, Clone: 8C12B2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).