For Research Use Only

AIF Monoclonal antibody

Catalog Number:67791-1-Ig Featured Product 6 Publications

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Basic Information

Catalog Number:
67791-1-Ig

Concentration:
1000 ug/ml

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

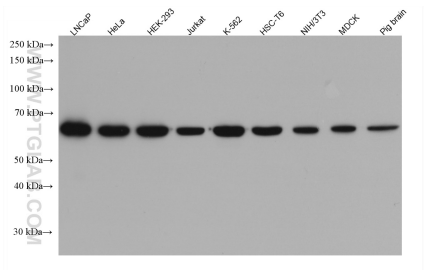
Author	Pubmed ID	Journal	Application
Zhongren Xu	35671636	Redox Biol	WB
Xu Ji	39986055	Ecotoxicol Environ Saf	WB
Yinmin Chen	39351873	J Hypertens	WB,IHC

Storage

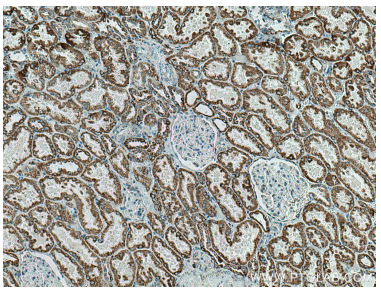
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

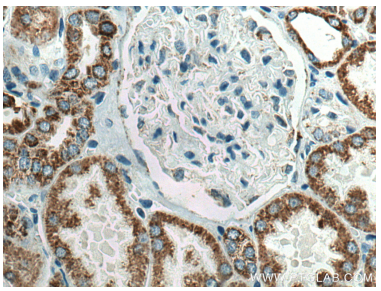
Selected Validation Data



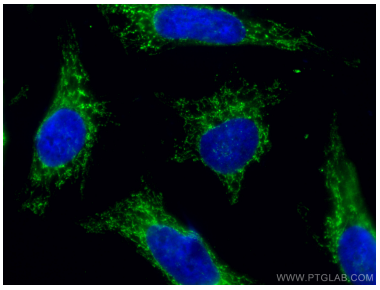
Various lysates were subjected to SDS PAGE followed by western blot with 67791-1-Ig (AIF antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



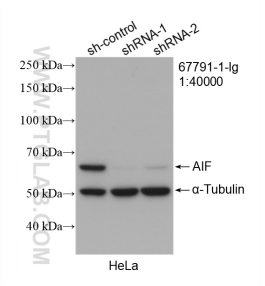
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 67791-1-Ig (AIF antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



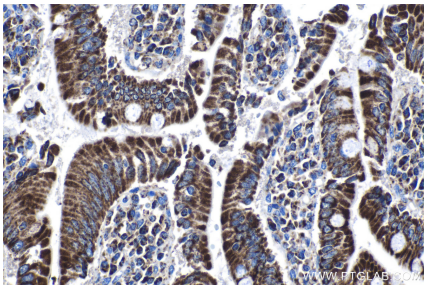
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 67791-1-Ig (AIF antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



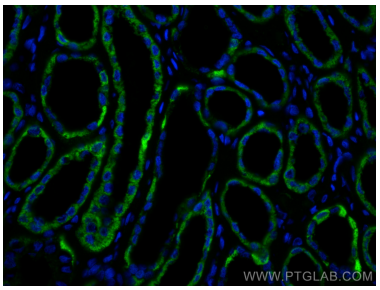
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using AIF antibody (67791-1-Ig, Clone: 8C12B2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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).