Product Datasheet

AIF Rabbit mAb

Catalog No: #48692

Package Size: #48692-1 50ul #48692-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	AIF Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SZ05-01
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	AIFM1 antibody AIFM1_HUMAN antibody Apoptosis inducing factor 1, mitochondrial antibody Apoptosis inducing factor antibody Apoptosis inducing factor, mitochondrion associated, 1 antibody Apoptosis-inducing factor 1 antibody CMTX4 antibody COWCK antibody COXPD6 antibody Harlequin antibody Hq antibody mAIF antibody MGC111425 antibody MGC5706 antibody mitochondrial antibody Neuropathy, axonal motor-sensory, with deafness and mental retardation antibody neuropathy, axonal, motor-sensory with deafness and mental retardation (Cowchock syndrome) antibody PDCD 8 antibody PDCD8 antibody Programmed cell death 8 (apoptosis inducing factor) antibody Programmed cell death 8 antibody Programmed cell death 8 isoform 1 antibody Programmed cell death 8 isoform 2 antibody Programmed cell death 8 isoform 3 antibody Programmed cell death protein 8 antibody Programmed cell death protein 8 mitochondrial antibody Programmed cell death protein 8 mitochondrial precursor antibody Programmed cell death protein 8 mitochondrial precursor antibody Striatal apoptosis inducing factor antibody
Accession No.	Swiss-Prot#:O95831
Calculated MW	67 kDa
SDS-PAGE MW	67 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

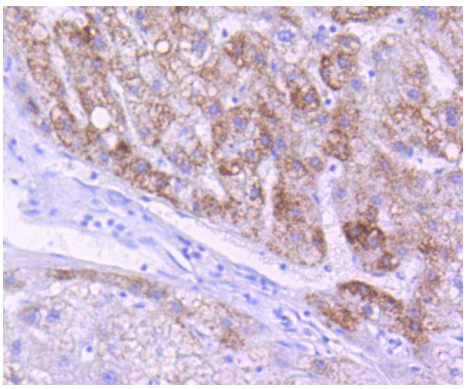
Application Details

WB: 1:500-1:2000

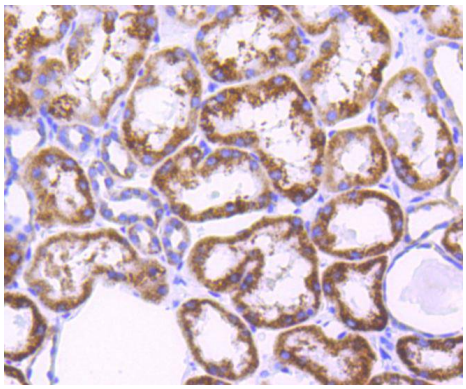
ICC/IF: 1:50-1:200

IHC: 1:50-1:200

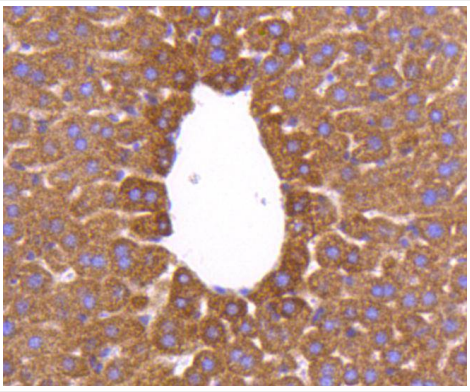
Images



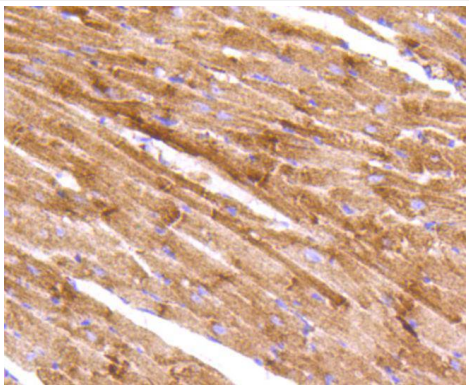
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-AIF antibody. Counter stained with hematoxylin.



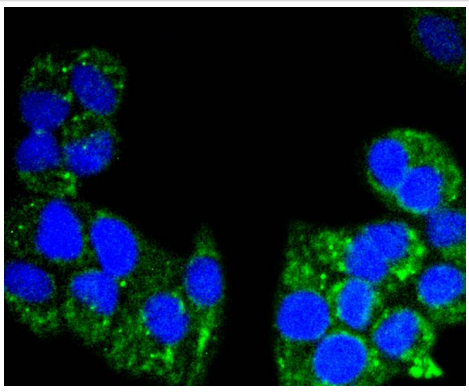
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-AIF antibody. Counter stained with hematoxylin.



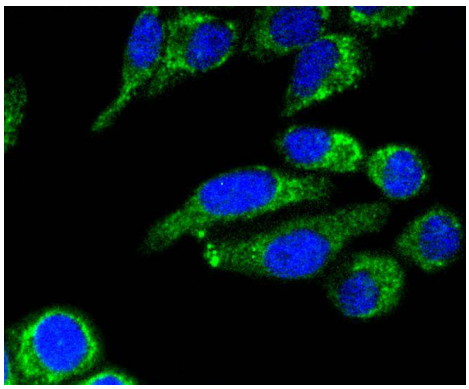
Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-AIF antibody. Counter stained with hematoxylin.



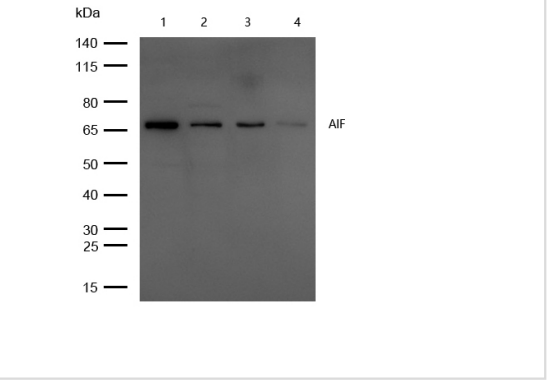
Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-AIF antibody. Counter stained with hematoxylin.



ICC staining AIF in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining AIF in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



All lanes : AIF Rabbit mAb at 1/1k dilution

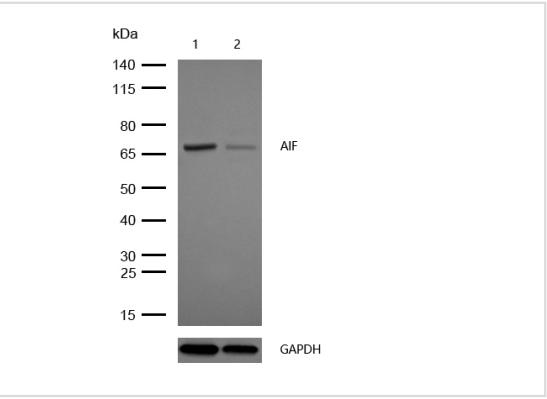
Lane 1 : SKOV-3 whole cell lysates
Lane 2 : Hela whole cell lysates
Lane 3 : 3T3 whole cell lysates
Lane 4 : C6 whole cell lysates

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

Predicted band size: 67 kDa
Observed band size: 67 kDa

Exposure time: 7 seconds



All lanes : AIF Rabbit mAb at 1/1k dilution

Lane 1 : Wild-type HAP1 cell lysate
Lane 2 : AIF knockdown HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

Background

A key event in the apoptotic process is the opening of the mitochondrial permeability transition pore, an event that is regulated by Bcl-2 family proteins, resulting in the release of several proteins from the mitochondrial intermembrane space. Several of these proteins participate in apoptosis, including cytochrome c, procaspases 2, 3, and 9, and AIF (apoptosis-inducing factor). AIF has been shown to cause DNA fragmentation and chromatin condensation and to induce the release of cytochrome c and caspase-9 from mitochondria. Bcl-2 overexpression has been shown to prevent the release of AIF from mitochondria, but not to block its apoptogenic activity.

References

1. Tang Y et al. Quantitative proteomic analysis of HER2 normal and overexpressing MCF-7 breast cancer cells revealed proteomic changes accompanied with HER2 gene amplification. J Proteomics 91C:200-209 (2013).
2. Kim TW et al. (ADP-ribose) polymerase 1 and AMP-activated protein kinase mediate progressive dopaminergic neuronal degeneration in a mouse model of Parkinson's disease. Cell Death Dis 4:e919 (2013).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.