For Research Use Only

AIFM2/ FSP1 Monoclonal antibody

Catalog Number:68049-1-Ig 3 Publications

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Basic Information

Catalog Number:
68049-1-Ig

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG30516

GenBank Accession Number:
BC023601

GeneID (NCBI):
84883

UNIPROT ID:
Q9BRQ8

Full Name:
apoptosis-inducing factor, mitochondrion-associated, 2

Calculated MW:
41 kDa

Observed MW:
41 kDa

Purification Method:
Protein G purification

CloneNo.:
1A2B2

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:250-1:1000
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse

Cited Species:
human, 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 : HepG2 cells, NCI-H1299 cells, A549 cells, HEK-293 cells, MCF-7 cells, K-562 cells, L02 cells

IP : K-562 cells,

IHC : mouse liver tissue,

IF/ICC : H9C2 cells,

Background Information

The human AIFM2 protein (also known as FSP1 or AMID) is an apoptosis associated flavoprotein with a 6-hydroxy FAD cofactor. AIFM2 is a NAD(P)H-binding oxidoreductase with some sequence similarities to A1FM1 (formerly known as AIF, Apoptosis Inducing Factor), a mitochondrion-associated enzyme which relocates to the cell nucleus during apoptosis and is considered to be a key player in the progression of cell death.

Notable Publications

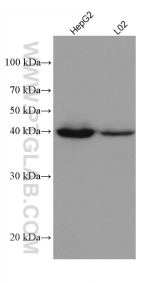
Author	Pubmed ID	Journal	Application
Fanhao Wei	39647633	J Adv Res	WB
Xuelian Chen	39025016	Redox Biol	WB
Yongyan Hu	38777204	Free Radic Biol Med	WB

Storage

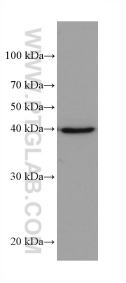
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

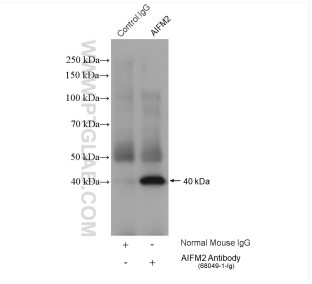
Selected Validation Data



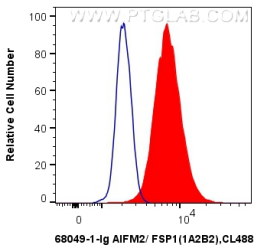
HepG2 cells were subjected to SDS PAGE followed by western blot with 68049-1-Ig (AIFM2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



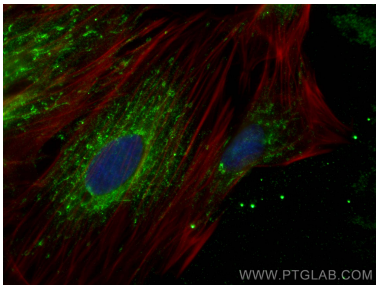
K-562 cells were subjected to SDS PAGE followed by western blot with 68049-1-Ig (AIFM2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



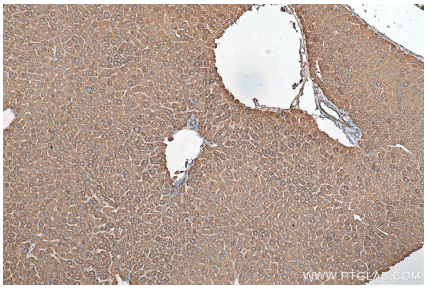
IP result of anti-AIFM2/ FSP1 (IP:68049-1-Ig, 4ug; Detection:68049-1-Ig 1:500) with K-562 cells lysate 1760 ug.



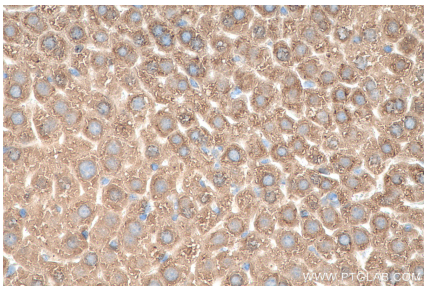
1X10^6 K-562 cells were intracellularly stained with 0.5 ug Anti-Human AIFM2 (68049-1-Ig, Clone:1A2B2) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.5 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (4% PFA) fixed H9C2 cells using AIFM2/ FSP1 antibody (68049-1-Ig, Clone: 1A2B2) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 68049-1-Ig (AIFM2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 68049-1-Ig (AIFM2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).