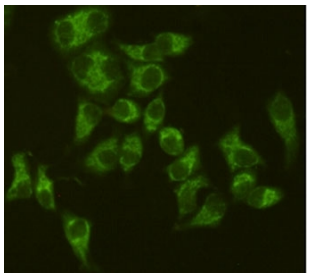
AIF Antibody / AIFM1 [clone 8H1-B10-A12] (F54034)

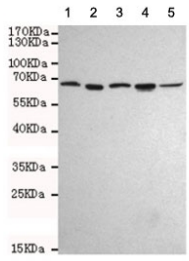
Catalog No.	Formulation	Size
F54034-0.1ML	In PBS with 50% glycerol and 0.03% ProClin 300	0.1 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	8H1-B10-A12
Purity	Protein G affinity
UniProt	O95831
Applications	Western Blot : 1:1000 ICC/IF : 1:200
Limitations	This AIF antibody is available for research use only.



ICC/IF staining of HeLa cells, fixed with 4% Paraformaldehyde, using AIF antibody at 1:200.



Western blot testing of human 1) HeLa, 2) Ramos, 3) HepG2, 4) MCF7 and 5) Jurkat cell lysates using AIF antibody at 1:1000. Predicted molecular weight ~67 kDa.

Description

Functions both as NADH oxidoreductase and as regulator of apoptosis. In response to apoptotic stimuli, it is released from the mitochondrion intermembrane space into the cytosol and to the nucleus, where it functions as a proapoptotic factor in a caspase-independent pathway. In contrast, functions as an antiapoptotic factor in normal mitochondria via its NADH oxidoreductase activity. The soluble form (AIFsol) found in the nucleus induces 'parthanatos' i.e. caspase-independent fragmentation of chromosomal DNA. Interacts with EIF3G,and thereby inhibits the EIF3 machinery and protein synthesis, and activates casapse-7 to amplify apoptosis. Plays a critical role in caspase-independent, pyknotic cell death in hydrogen peroxide-exposed cells. Binds to DNA in a sequence-independent manner. [UniProt]

Application Notes

The stated application concentrations are suggested starting points. Titration of the AIF antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A human recombinant partial protein was used as the immunogen for this AIF antibody.

Storage

Store the AIF antibody at -20oC.