

Datasheet for ABIN4953229

anti-AIF antibody



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1 Image

Overview

Quantity:	0.1 mL
Target:	AIF (AIFM1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A human recombinant partial protein was used as the immunogen for this AIF antibody.
Clone:	8H1-B10-A12
Isotype:	IgG2a
Purification:	Protein G affinity

Target Details

Target:	AIF (AIFM1)
Alternative Name:	AIFM1 / AIF / Apoptosis-Inducing Factor (AIFM1 Products)
Background:	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'

Target Details

i.e. caspase-independent fragmentation of chromosomal DNA. Interacts with EIF3G, and thereby inhibits the EIF3 machinery and protein synthesis, and activates casapase-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]

UniProt: [O95831](#)

Pathways: [Apoptosis](#), [Positive Regulation of Endopeptidase Activity](#), [Cell Redox Homeostasis](#), [Smooth Muscle Cell Migration](#), [Warburg Effect](#)

Application Details

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.\.
Western blot: 1:1000, ICC/IF: 1:200

Restrictions: For Research Use only

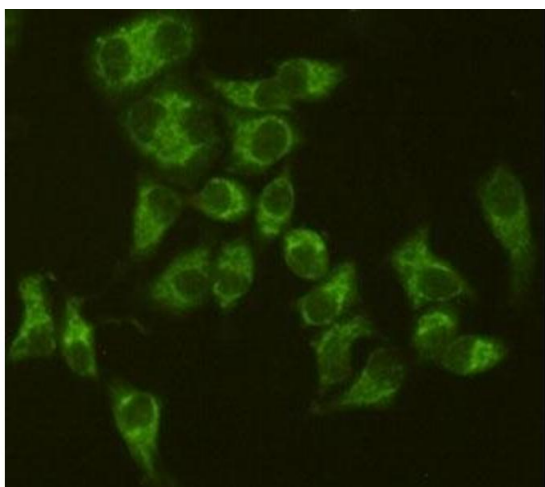
Handling

Buffer: Antibody in PBS with 50 % Glycerol and 0.03 % ProClin 300

Storage: -20 °C

Storage Comment: Store the AIF antibody at -20°C.

Images



Immunocytochemistry

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