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Datasheet for ABIN7144472

anti-AIF antibody (AA 103-612)

4 Images

Overview

Quantity:	100 µg
Target:	AIF (AIFM1)
Binding Specificity:	AA 103-612
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AIF antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Apoptosis-inducing factor 1, mitochondrial protein (103-612AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	AIF (AIFM1)
Alternative Name:	AIFM1 (AIFM1 Products)
Background:	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

Target Details

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 caspase-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.

Aliases: 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

UniProt: [O95831](#)

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

Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:1000-1:2000, IF:1:200-1:500,

Restrictions: For Research Use only

Handling

Format: Liquid

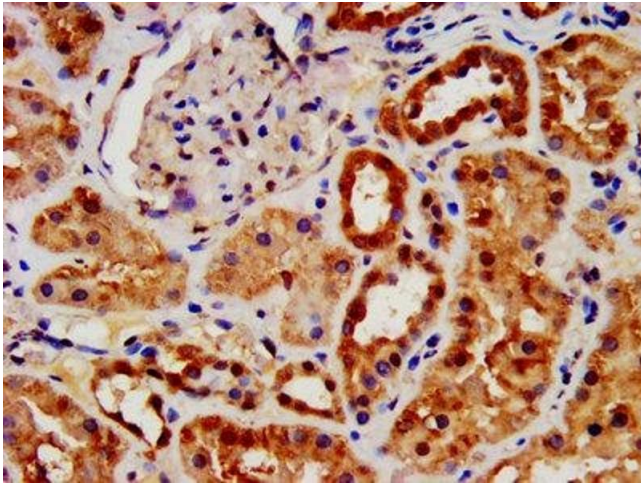
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Handling

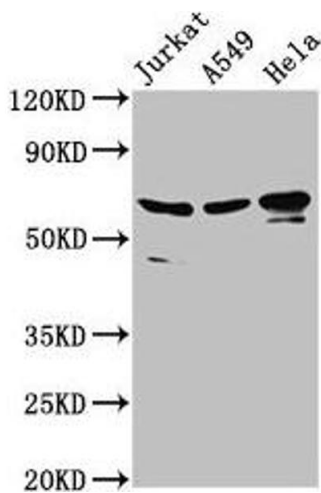
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



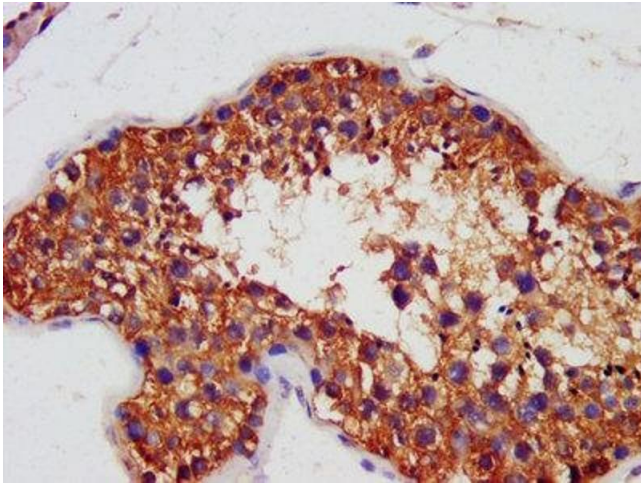
Immunohistochemistry

Image 1. IHC image of ABIN7144472 diluted at 1:1400 and staining in paraffin-embedded human kidney tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Western Blotting

Image 2. Western Blot Positive WB detected in: Jurkat whole cell lysate, A549 whole cell lysate, HeLa whole cell lysate All lanes: AIFM1 antibody at 2.8 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 67, 36, 29, 27 kDa Observed band size: 67 kDa



Immunohistochemistry

Image 3. IHC image of ABIN7144472 diluted at 1:1400 and staining in paraffin-embedded human testis tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7144472.