

Datasheet for ABIN7144472  
**anti-AIF antibody (AA 103-612)**



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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), Immunohistochemistry (IHC), ELISA, 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 ( <a href="#">AIFM1 Products</a> )
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

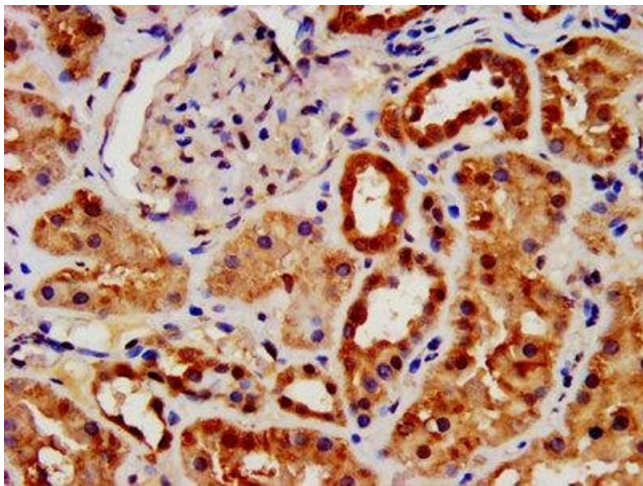
Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Handling

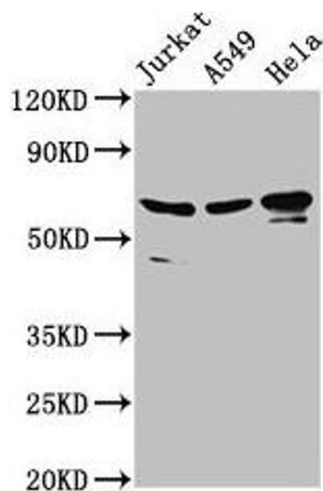
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



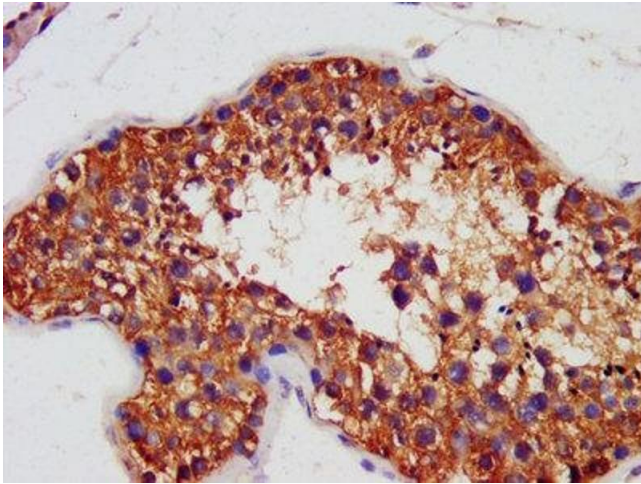
Immunohistochemistry

**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.