Datasheet for ABIN615316

anti-AIF antibody (AA 593-606)

3 Images

Go to Product page

Overview

Quantity:	50 µg
Target:	AIF (AIFM1)
Binding Specificity:	AA 593-606
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AIF antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	AIFM1 antibody was raised against synthetic peptide (KDGEQHEDLNEVAK) corresponding to amino acids 593 to 606 of human AIF.
Specificity:	This antibody reacts to Apoptosis-inducing Factor (AIFM1, PDCD8).
Purification:	Immunoaffinity Chromatography

Target Details

Target:	AIF (AIFM1)
Alternative Name:	AIFM1 / AIF (AIFM1 Products)
Background:	Apoptosis is characterized by several morphological nuclear changes including chromatin condensation and nuclear fragmentation. These changes are triggered by the activation of

Target Details

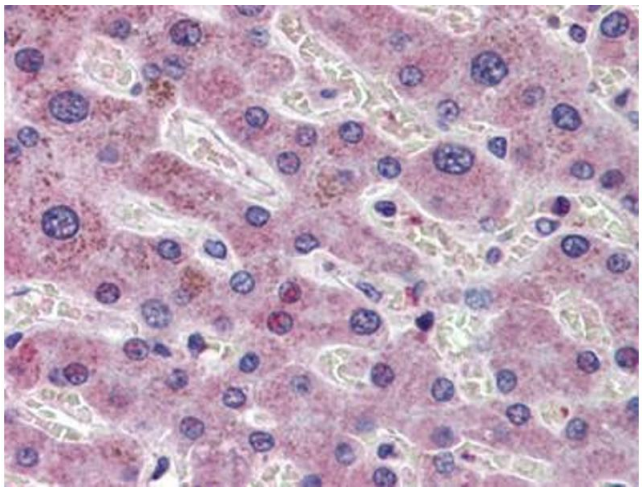
	members of caspase family, caspase activated DNase, and several novel proteins. A novel gene, the product of which causes chromatin condensation and DNA fragmentation, was recently identified, cloned, and designated apoptosis inducing factor (AIF). Like the critical molecules, cytochrome c and caspase-9, in apoptosis, AIF localizes in mitochondria. AIF translocates to the nucleus when apoptosis is induced and induces mitochondria to release the apoptogenic proteins cytochrome c and caspase-9. AIF induces chromatin condensation and large scale DNA fragmentation, which are the hallmarks of apoptosis, of the isolated nucleus and the nucleus in live cells by microinjection and apoptosis stimuli. AIF is highly conserved between human and mouse and widely expressed.Synonyms: Apoptosis-inducing factor 1 mitochondrial, PDCD8, Programmed cell death protein 8
Gene ID:	9131
NCBI Accession:	NP_004199
UniProt:	O95831
Pathways:	Apoptosis, Positive Regulation of Endopeptidase Activity, Cell RedoxHomeostasis, Smooth Muscle Cell Migration, Warburg Effect

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

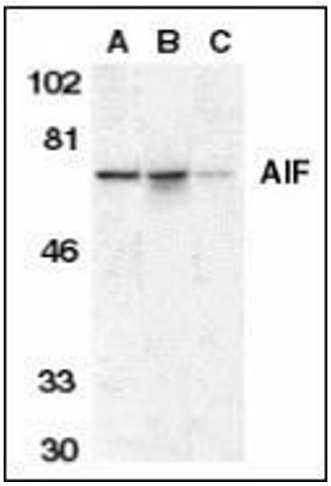
Handling

Buffer:	PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C to -70 °C for longer.



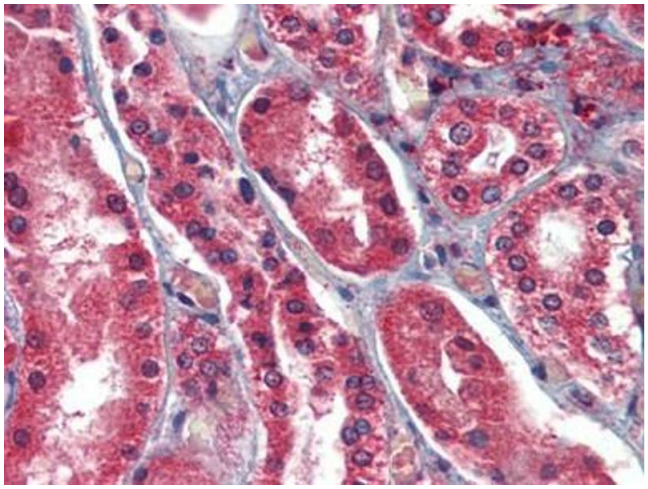
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)



Western Blotting

Image 2. Western blot analysis of AIF in K562 cell lysate (A), mouse (B), and rat (C) liver tissue lysates with AIF antibody at 1 µg/ml.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)