

Datasheet for ABIN499237

anti-AIF antibody (Intermediate Domain)



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2 Images

Overview

Quantity:	0.1 mg
Target:	AIF (AIFM1)
Binding Specificity:	Intermediate Domain
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AIF antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Human AIF (Intermediate Domain) Peptide
Isotype:	IgG
Specificity:	AIF antibody was raised against a peptide corresponding to amino acids 517 to 531 of human AIF.
Purification:	Ion exchange chromatography

Target Details

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

Target Details

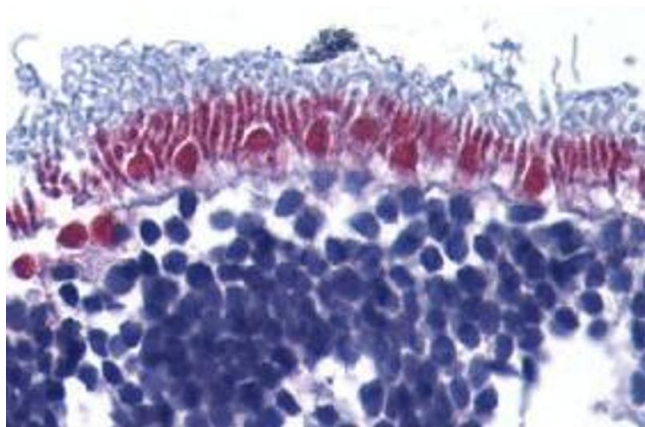
Background:	Apoptosis is characterized by several morphological nuclear changes including chromatin condensation and nuclear fragmentation. These changes are triggered by the activation of members of caspase family, caspase activated DNase, and several novel proteins (1). A novel gene, the product of which causes chromatin condensation and DNA fragmentation, was recently identified, cloned, and designated apoptosis inducing factor (AIF) (2). 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 (2,3). AIF is highly conserved between human and mouse and widely expressed (2).Synonyms: Apoptosis-inducing factor 1 mitochondrial, PDCD8, Programmed cell death protein 8
Gene ID:	9131
UniProt:	O95831
Pathways:	Apoptosis , Positive Regulation of Endopeptidase Activity , Cell RedoxHomeostasis , Smooth Muscle Cell Migration , Warburg Effect

Application Details

Application Notes:	ELISA. Western Blot: AIF antibody can be used for detection of AIF at 0.25 to 1 µg/mL. A 67 kDaband should be detected. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

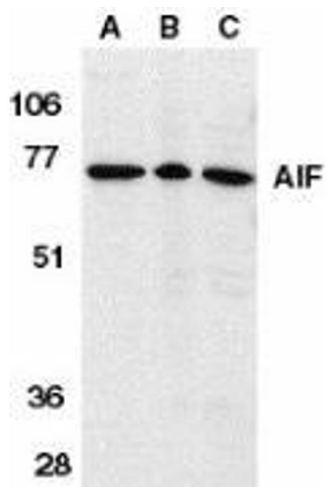
Handling

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.
Storage:	4 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of AIF in human retina with AIF antibody at 10 µg/ml.



Western Blotting

Image 2. Western blot analysis of AIF in K562 cell lysate (A), rat heart (B), and mouse heart (C) tissue lysates with AP30030PU-N AIF antibody (IN) at 1 µg/ml.