Datasheet for ABIN499235

anti-AIF antibody (N-Term)

3 Images

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Overview

Quantity:	0.1 mg
Target:	AIF (AIFM1)
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AIF antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Human AIF (N-Terminus) Peptide
Isotype:	IgG
Specificity:	AIF antibody was raised against a peptide corresponding to amino acids near the amino terminus of mature human AIF.
Purification:	Ion exchange chromatography

Target Details

Target:	AIF (AIFM1)
Alternative Name:	AIFM1 / AIF (AIFM1 Products)
Background:	Apoptosis is characterized by several morphological nuclear changes including chromatin

Target Details

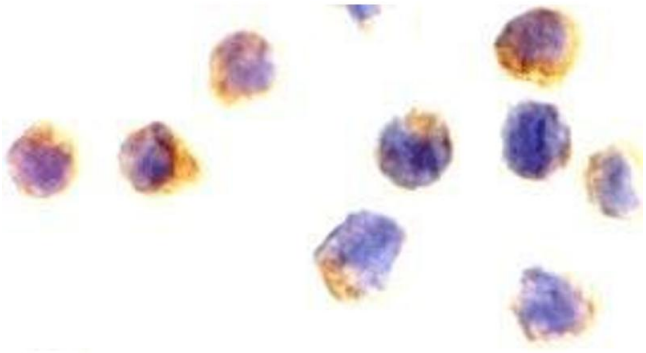
	condensation and nuclear fragmentation. These changes are triggered by the activation of members of caspase family, caspase activated DNase, and several novel proteins (1). A novel gene, the product of which causes chromatin condensation and DNA fragmentation, was recently identified, cloned, and designated 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 DNA fragmentation, which are the hallmarks of apoptosis, of the isolated nucleus and the nucleus in live cells by microinjection. 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. Immunocytochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

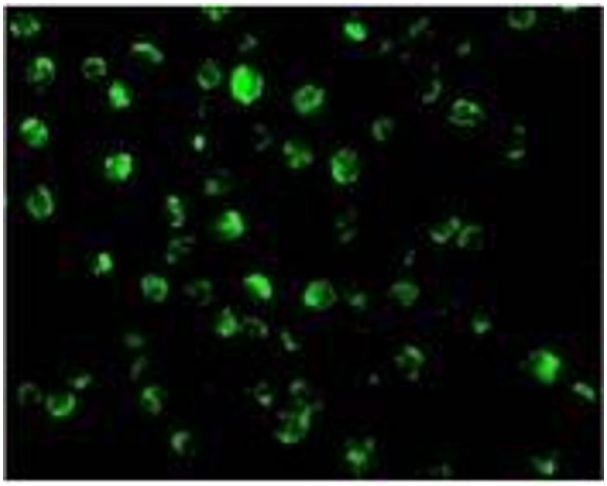
Handling

Buffer:	PBS containing 0.02 % Sodium Azide as preservative
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 undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



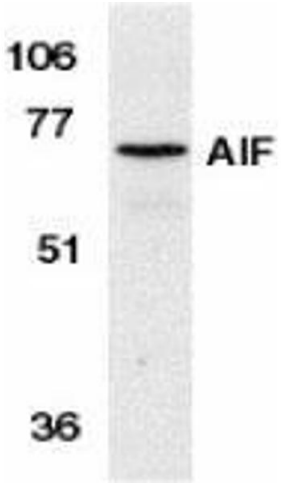
Immunofluorescence

Image 1. Immunocytochemistry of AIF??in Jurkat cells with AP30029PU-N AIF antibody at 2 µg/ml.



Immunofluorescence

Image 2. Immunofluorescence of AIF in K562 cells with AIFat 20 µg/ml.



Western Blotting

Image 3. Western blot analysis of AIF in K562 cell lysate with AP30029PU-N AIF antibody at 1 µg/ml.