Datasheet for ABIN6990330

anti-AIF antibody (N-Term)

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Overview

Quantity:	0.1 mg
Target:	AIF (AIFM1)
Binding Specificity:	AA 90-140, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Anti-AIF antibody was raised against a peptide corresponding to 14 amino acids near the amino terminus of mature human AIF. The immunogen is located within amino acids 90-140 of AIF.
Isotype:	IgG
Specificity:	Multiple isoforms of AIF are known to exist.
Purification:	AIF Antibody is Ion exchange chromatography purified.

Target Details

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

Target Details

	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 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.
Molecular Weight:	Predicted: 67 kDa Observed: 68 kDa
Gene ID:	9131
UniProt:	O95381
Pathways:	Apoptosis, Positive Regulation of Endopeptidase Activity, Cell RedoxHomeostasis, Smooth Muscle Cell Migration, Warburg Effect

Application Details

Application Notes:	WB: 1-2 µ,g/mL, IF: 20 µ,g/mL. Antibody validated: Western Blot in human samples, Immunofluorescence in human samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	AIF Antibody is supplied in 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:	-20 °C,4 °C

Handling

Storage Comment:	AIF antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.