

Datasheet for ABIN6990274  
**anti-AIF antibody (AA 500-550)**



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## Overview

|                      |                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------|
| Quantity:            | 0.1 mg                                                                                    |
| Target:              | AIF (AIFM1)                                                                               |
| Binding Specificity: | AA 500-550                                                                                |
| Reactivity:          | Human, Mouse, Rat                                                                         |
| Host:                | Rabbit                                                                                    |
| Clonality:           | Polyclonal                                                                                |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

|               |                                                                                                                                                                          |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:    | Anti-AIF antibody was raised against a peptide corresponding to 15 amino acids near the center of human AIF. The immunogen is located within amino acids 500-550 of AIF. |
| Isotype:      | IgG                                                                                                                                                                      |
| Specificity:  | At least five isoforms of AIF are known to exist, this antibody will detect all isoforms except isoform 5.                                                               |
| Purification: | AIF Antibody is affinity chromatography purified via peptide column.                                                                                                     |

## Target Details

|                   |                                                                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | AIF (AIFM1)                                                                                                                                                                      |
| Alternative Name: | AIF ( <a href="#">AIFM1 Products</a> )                                                                                                                                           |
| Background:       | AIF Antibody: Apoptosis is characterized by several morphological nuclear changes including chromatin condensation and nuclear fragmentation. These changes are triggered by the |

## Target Details

activation of 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.

Molecular Weight: Predicted: 67 kDa

Observed: 68 kDa

Gene ID: 9131

UniProt: [O95381](#)

Pathways: [Apoptosis](#), [Positive Regulation of Endopeptidase Activity](#), [Cell Redox Homeostasis](#), [Smooth Muscle Cell Migration](#), [Warburg Effect](#)

## Application Details

Application Notes: WB: 1-2 µg/mL, IHC-P: 10 µg/mL.

Antibody validated: Western Blot in human, mouse, and rat samples, Immunohistochemistry 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.

## Handling

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Storage: -20 °C, 4 °C

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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.