

Datasheet for ABIN881969

## anti-AIF antibody (AA 131-230) (AbBy Fluor® 555)



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### Overview

|                      |                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                         |
| Target:              | AIF (AIFM1)                                                                                                                    |
| Binding Specificity: | AA 131-230                                                                                                                     |
| Reactivity:          | Human, Mouse, Rat, Pig                                                                                                         |
| Host:                | Rabbit                                                                                                                         |
| Clonality:           | Polyclonal                                                                                                                     |
| Conjugate:           | This AIF antibody is conjugated to AbBy Fluor® 555                                                                             |
| Application:         | Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

### Product Details

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human AIF |
| Isotype:              | IgG                                                     |
| Cross-Reactivity:     | Human, Mouse, Pig, Rat                                  |
| Predicted Reactivity: | Dog,Cow,Sheep,Chicken,Rabbit                            |
| Purification:         | Purified by Protein A.                                  |

### Target Details

|                   |                                        |
|-------------------|----------------------------------------|
| Target:           | AIF (AIFM1)                            |
| Alternative Name: | AIF ( <a href="#">AIFM1 Products</a> ) |

## Target Details

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| Background: | <p>Synonyms: AIF, CMT2D, CMTX4, COWCK, NADMR, NAMSD, PDCD8, COXPD6, Apoptosis-inducing factor 1, mitochondrial, Programmed cell death protein 8, AIFM1</p> <p>Background: Functions both as NADH oxidoreductase and as regulator of apoptosis. In response to apoptotic stimuli, it is released from the mitochondrion intermembrane space into the cytosol and to the nucleus, where it functions as a proapoptotic factor in a caspase-independent pathway. In contrast, functions as an antiapoptotic factor in normal mitochondria via its NADH oxidoreductase activity. The soluble form (AIFsol) found in the nucleus induces 'parthanatos' i.e. caspase-independent fragmentation of chromosomal DNA. Interacts with EIF3G, and thereby inhibits the EIF3 machinery and protein synthesis, and activates caspase-7 to amplify apoptosis. Plays a critical role in caspase-independent, pyknotic cell death in hydrogen peroxide-exposed cells. Binds to DNA in a sequence-independent manner.</p> |
| Gene ID:    | 9131                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| UniProt:    | <a href="#">O95831</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Pathways:   | <a href="#">Apoptosis</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Cell Redox Homeostasis</a> , <a href="#">Smooth Muscle Cell Migration</a> , <a href="#">Warburg Effect</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Application Details

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|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Application Notes: | IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200                                                       |
| Restrictions:      | For Research Use only                                                                                              |
| Handling           |                                                                                                                    |
| Format:            | Liquid                                                                                                             |
| Concentration:     | 1 µg/µL                                                                                                            |
| Buffer:            | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.        |
| Preservative:      | ProClin                                                                                                            |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage:           | -20 °C                                                                                                             |

## Handling

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|------------------|-----------------------------------------------------------------------------------|
| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |
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| Expiry Date: | 12 months |
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