

## Anti-AIF/AIFM1 Antibody Picoband® Cy3 Conjugated

Catalog Number: PB9366-Cy3

### About AIFM1

Apoptosis-inducing factor 1, mitochondrial, also known as AIF or PDCD8 is a protein that in humans is encoded by the AIFM1 gene. AIFM1 gene is mapped to Xq26.1 based on an alignment of the AIFM1 sequence with the genomic sequence. This gene encodes a flavoprotein essential for nuclear disassembly in apoptotic cells, and it is found in the mitochondrial intermembrane space in healthy cells. Induction of apoptosis results in the translocation of this protein to the nucleus where it affects chromosome condensation and fragmentation. In addition, this gene product induces mitochondria to release the apoptogenic proteins cytochrome c and caspase-9. Mutations in this gene cause combined oxidative phosphorylation deficiency 6, which results in a severe mitochondrial encephalomyopathy. A related pseudogene has been identified on chromosome 10.

### Overview

|                      |                                                                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-AIF/AIFM1 Antibody Picoband® Cy3 Conjugated                                                                                                                                             |
| Reactive Species     | Human, Mouse, Rat                                                                                                                                                                            |
| Application          | Recommended applications are based on the parent unconjugated antibody (Flow Cytometry, IF, IHC, ICC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality            | Polyclonal                                                                                                                                                                                   |
| Formulation          | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .                                                                                 |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.                                                                                         |
| Host                 | Rabbit                                                                                                                                                                                       |
| Uniprot ID           | O95831                                                                                                                                                                                       |

### Technical Details

|                  |                                                                                                                                   |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Immunogen        | A synthetic peptide corresponding to a sequence at the C-terminus of human AIF, identical to the related mouse and rat sequences. |
| Cross Reactivity | No cross-reactivity with other proteins.                                                                                          |
| Isotype          | Rabbit IgG                                                                                                                        |
| Form             | Liquid                                                                                                                            |
| Concentration    | 0.5 mg/mL                                                                                                                         |
| Purification     | Immunogen affinity purified.                                                                                                      |
| Conjugate        | Cy3<br>Excitation Wavelength: 554 nm<br>Emission Wavelength: 568 nm                                                               |

Suggested Dilutions

Optimal dilutions should be determined by end users.

## 4 Publications Citing This Product

1. PubMed ID: 10.1016/j.pharep.2017.06.005, Icariin induces apoptosis in acute promyelocytic leukemia by targeting PIM1
2. PubMed ID: 10.1111/j.1478-3231.2008.01757.x, Protection by bicyclol derivatives against acetaminophen-induced acute liver failure in mice and its active mechanism
3. PubMed ID: 27895670, Wnt5a Increases Properties of Lung Cancer Stem Cells and Resistance to Cisplatin through Activation of Wnt5a/PKC Signaling Pathway

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