

Datasheet for ABIN6719266 **anti-AIF antibody (C-Term)**



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	AIF (AIFM1)
Binding Specificity:	AA 582-613, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This AIF antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-AIF/AIFM1 Antibody Picoband® (monoclonal, 2I5)
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human AIF, identical to the related mouse and rat sequences.
Sequence:	FNRMPIARKI IKDGEQHEDL NEVAKLFNIH ED
Clone:	2I5
Isotype:	IgG1
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-AIF/AIFM1 Antibody Picoband® (monoclonal, 2I5) (ABIN6719266). Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The

Product Details

brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: AIF (AIFM1)

Alternative Name: AIFM1 ([AIFM1 Products](#))

Background: Synonyms: AIFM1 antibody|AIFM1_HUMAN antibody|Apoptosis inducing factor 1, mitochondrial antibody|Apoptosis inducing factor antibody|Apoptosis inducing factor, mitochondrion associated, 1 antibody|Apoptosis-inducing factor 1 antibody|CMTX4 antibody|COXPD6 antibody|Harlequin antibody|Hq antibody|mAIF antibody|MGC111425 antibody|MGC5706 antibody|mitochondrial antibody|Neuropathy, axonal motor-sensory, with deafness and mental retardation antibody|neuropathy, axonal, motor-sensory with deafness and mental retardation (Cowchock syndrome) antibody|PDCD 8 antibody|PDCD8 antibody|Programmed cell death 8 (apoptosis inducing factor) antibody|Programmed cell death 8 antibody|Programmed cell death 8 isoform 1 antibody|Programmed cell death 8 isoform 2 antibody|Programmed cell death 8 isoform 3 antibody|Programmed cell death protein 8 antibody|Programmed cell death protein 8 mitochondrial antibody|Programmed cell death protein 8 mitochondrial precursor antibody|Striatal apoptosis inducing factor antibody

Tissue Specificity: Detected in muscle and skin fibroblasts (at protein level). Isoform 5 is frequently down-regulated in human cancers.

Background: 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.

Molecular Weight: 70 kDa

Target Details

Gene ID:	9131
UniProt:	O95831
Pathways:	Apoptosis , Positive Regulation of Endopeptidase Activity , Cell RedoxHomeostasis , Smooth Muscle Cell Migration , Warburg Effect

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL Immunofluorescence, 2 µg/mL Immunocytochemistry/Immunofluorescence, 5 µg/mL Flow Cytometry (Fixed), 1-3 µg/1×10 ⁶ cells 1.Ghezzi, D., Sevrioukova, I., Invernizzi, F., Lamperti, C., Mora, M., D'Adamo, P., Novara, F., Zuffardi, O., Uziel, G., Zeviani, M. Severe X-linked mitochondrial encephalomyopathy associated with a mutation in apoptosis-inducing factor. Am. J. Hum. Genet. 86: 639-649, 2010. 2.Rinaldi, C., Grunseich, C., Sevrioukova, I. F., Schindler, A., Horkayne-Szakaly, I., Lamperti, C., Landoure, G., Kennerson, M. L., Burnett, B. G., Bonnemann, C., Biesecker, L. G., Ghezzi, D., Zeviani, M., Fischbeck, K. H. Cowchock syndrome is associated with a mutation in apoptosis-inducing factor. Am. J. Hum. Genet. 91: 1095-1102, 2012. 3.Yu, S.-W., Andrabi, S. A., Wang, H., Kim, N. S., Poirier, G. G., Dawson, T. M., Dawson, V. L. Apoptosis-inducing factor mediates poly(ADP-ribose) (PAR) polymer-induced cell death. Proc. Nat. Acad. Sci. 103: 18314-18319, 2006.
Comment:	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.