

AIF Polyclonal Antibody | anti-AIF antibody

Anti-AIF Antibody

CATALOG # AAA46470	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunocytochemistry, Immunohistochemistry, Western Blot
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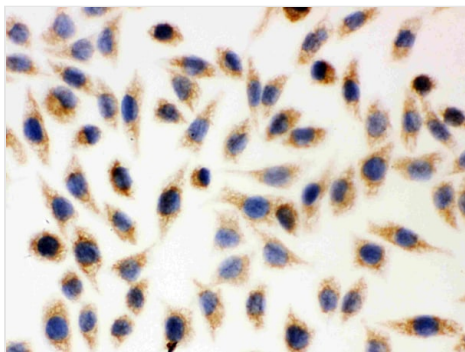
PRODUCT SYNONYMS

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

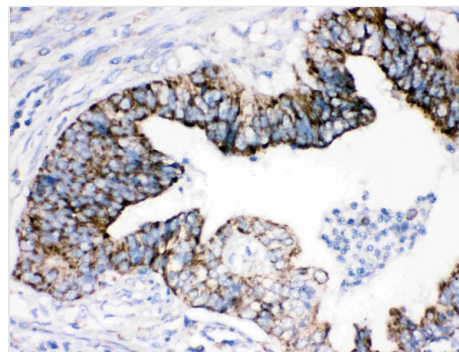
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	274
Applicable Applications for anti-AIF antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human AIF(582-613aa FNRMPiARKIIKDGEQHEDLNEVAKLFNIHED), identical to the related mouse and rat sequences.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

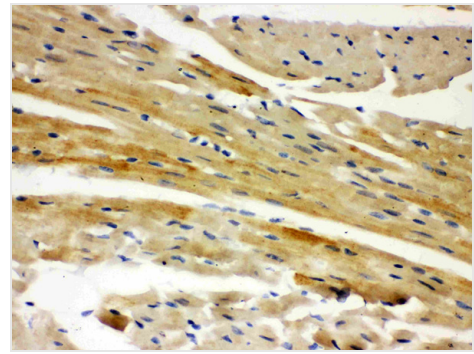
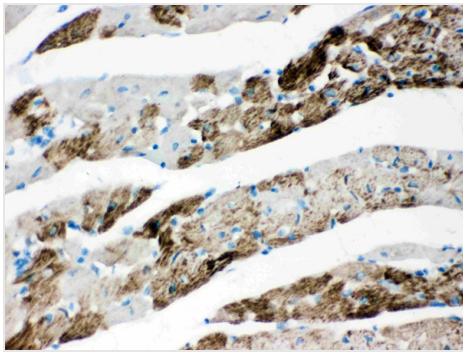
IMAGES


ICC (Immunocytochemistry)

Anti- AIF Picoband antibody, AAA46470, ICCIC: SMMC-7721 Cell

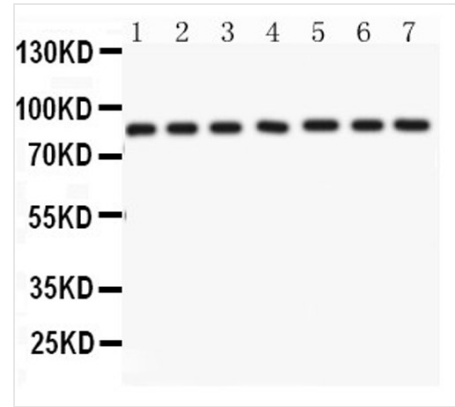

IHC (Immunohistochemistry)

Anti- AIF Picoband antibody, AAA46470, IHC(P)IHC(P): Human Intestinal Cancer Tissue



IHC (Immunohistochemistry)
Anti- AIF Picoband antibody, AAA46470, IHC(P)IHC(P): Rat Cardiac Muscle Tissue

IHC (Immunohistochemistry)
Anti- AIF Picoband antibody, AAA46470, IHC(P)IHC(P): Mouse Cardiac Muscle Tissue



WB (Western Blot)
Anti- AIF Picoband antibody, AAA46470, Western blottingAll lanes: Anti AIF (AAA46470) at 0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ugLane 2: Rat Brain Tissue Lysate at 50ugLane 3: Mouse Stomach Tissue Lysate at 50ugLane 4: Mouse Spleen Tissue Lysate at 50ugLane 5: HELA Whole Cell Lysate at 40ugLane 6: U87 Whole Cell Lysate at 40ugLane 7: PANC Whole Cell Lysate at 40ugPredicted bind size: 67KDObserved bind size: 85KD

ADDITIONAL INFORMATION

Related Product Information for anti-AIF antibody	Description: Rabbit IgG polyclonal antibody for Apoptosis-inducing factor 1, mitochondrial(AIFM1) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat. 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.
References	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., Landouze, 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	923424571
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NCBI GeneID	9131
NCBI Accession #	NP_001124318.2
NCBI GenBank Nucleotide #	NM_001130846.3
UniProt Accession #	O95831; Q1L6K4; Q1L6K6; Q2QKE4; Q5JUZ7; Q6I9X6; Q9Y3I3; Q9Y3I4; A4QPB4; B1ALN1; B2RB08; D3DTE9
Molecular Weight	26,033 Da
NCBI Official Full Name	apoptosis-inducing factor 1, mitochondrial isoform AIFsh
NCBI Official Synonym Full Names	apoptosis inducing factor, mitochondria associated 1
NCBI Official Symbol	AIFM1
NCBI Official Synonym Symbols	AIF; CMT2D; CMTX4; COWCK; DFNX5; NADMR; NAMSD; PDCD8; COXPD6
NCBI Protein Information	apoptosis-inducing factor 1, mitochondrial
UniProt Protein Name	Apoptosis-inducing factor 1, mitochondrial
UniProt Gene Name	AIFM1
UniProt Synonym Gene Names	AIF; PDCD8
UniProt Entry Name	AIFM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/aif-antibody-immunocytochemistry-immunohistochemistry-western-blot-elisa/46470>