

Rabbit AIF Polyclonal Antibody | anti-AIF antibody

Polyclonal Antibody to AIF

CATALOG # AAA78292	HOST Rabbit	REACTIVITY Cow, Dog, Human, Mouse, Rat	APPLICATIONS Immunoprecipitation, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

AIF; Polyclonal Antibody; Polyclonal Antibody to AIF; AIFM1; PDCD8; Programmed cell death protein 8; Antibody to AIF; Anti-AIF Antibody; AIF Antibody; anti-AIF antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Cow, Dog, Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Serum
Form/Format	50 ul sera
Sequence Length	613
Applicable Applications for anti-AIF antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Information	A synthetic peptide of human AIF (amino acids 151-169 RARDPGARVLIVSEDP) was used as immunogen for this antibody
Antigen	AIF
Preparation and Storage	Store the antibody at 4 degree C, stable for 6 months. For long-term storage, store at -20 degree C. Avoid repeated freeze and thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Fig: 2 Immunohistochemical staining of AIF in formalin-fixed, paraffin-embedded normal human colon using at 1: 2000. Hematoxylin-eosin counterstain. In this example, AIF expression is predominant in the upper part of the crypt.



WB (Western Blot)

Fig: 1 Western blot analysis of AIF in human colon using at 1: 2000. Lane 1, normal colon. Lanes 2-7, colon carcinoma tissue lysates from 6 different patients. mAIF, thought to represent mitochondrial AIF.

ADDITIONAL INFORMATION

Related Product Information for anti-AIF antibody	AIF (apoptosis-inducing factor) was initially discovered as a protein involved in caspase-independent cell death. It is now known that AIF has both vital and lethal functions (reviewed in Modjtahedi et al, 2006). In healthy cells, AIF is a flavoprotein present in the mitochondria where it has vital roles in cellular redox metabolism and mitochondrial bioenergetics. In many models of apoptosis, AIF is released from the mitochondria during mitochondrial outer membrane permeabilization along with other mitochondrial proteins. Upon release, AIF translocates first to the cytosol and then to the nucleus where it induces chromatin condensation and DNA degradation. Although several lines of evidence suggest that AIF is a main mediator of caspase-independent cell death, the mechanisms regulating AIF pro-apoptotic function remain to be fully elucidated and may depend on the cell type and type of apoptotic stimuli. Human AIF is transcribed from a nuclear gene located on the X chromosome and translated in the cytoplasm to a precursor protein of 613 amino acids (aa) which corresponds to ~67 kDa. The precursor protein is imported into the mitochondria by mitochondrial localization sequences located within the N-terminal prodomain of AIF. Once inside the mitochondria, the prodomain is cleaved giving rise to a mature AIF form of ~57 kDa. AIF isoforms generated from a single AIF gene have been identified, including AIF short isoform 2 (324 aa protein; GenBank no. AAY84739.1) and AIF short isoform 3 (237 aa protein; GenBank no. AAY84741.1 (reviewed in Deltre et al, 2006). The generation of multiple isoforms from a common gene is an evolutionary mechanism that increases protein diversity in eukaryotes. Regulating gene expression through the production of multiple isoforms from a single gene is thought to play a major role in the control of apoptosis and other forms of programmed cell death. This antibody recognizes AIF and AIF isoforms containing the peptide immunogen sequence, RARDPGARVLIVSEDP.ELP.
Product Categories/Family for anti-AIF antibody	Antibodies; Apoptosis

NCBI AND UNIPROT INFORMATION

NCBI GI #	13431764
NCBI GeneID	9131
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
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

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/aif-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/78292>