Anti-Apoptosis Inducing Factor (AIF) (RABBIT) Antibody - 200-401-985

Code: 200-401-985 **Size:** 100 µg

Product Description: Anti-Apoptosis Inducing Factor (AIF) (RABBIT) Antibody - 200-401-985

Concentration: 0.5 mg/mL by UV absorbance at 280 nm

PhysicalState: Liquid (sterile filtered)

Label	Unconjugated
Host	Rabbit
Gene Name	AIFM1
Species Reactivity	human, mouse, rat
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
Storage Condition	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Synonyms	Harlequin antibody, Hq antibody, mAIF antibody, MGC111425 antibody, MGC5706 antibody, PDCD 8 antibody, AIF, PDCD8
Application Note	Anti-AIF Antibody has been tested for use in ELISA, western blotting and immunohistochemistry. K562 cell lysate, as well as rat and mouse heart tissue lysates, can be used as positive controls in western blotting, and a band at approximately 67 kDa is expected. Specific conditions for reactivity should be optimized by the end user.
Background	Apoptosis is characterized by several morphological nuclear changes including chromatin condensation and nuclear fragmentation. These changes are triggered by the activation of members of the caspase family, caspase activated DNase, and several novel proteins. A novel gene, the product of which causes chromatin condensation and DNA fragmentation, was recently identified, cloned, and designated apoptosis inducing factor (AIF). Like cytochrome c and caspase-9, which are critical molecules in apoptosis, AIF localizes to mitochondria. AIF translocates to the nucleus when apoptosis is induced and induces mitochondria to release the apoptogenic proteins cytochrome c and caspase-9. AIF induces chromatin condensation and large scale DNA fragmentation, which are the hallmarks of apoptosis. These effects occur in both isolated nuclei and in the nuclei of live cells treated by microinjection and with apoptosis stimuli. AIF is highly conserved between human and mouse and is widely expressed. Anti-AIF antibody is ideal for investigators involved in DNA Damage and Repair and Chromatin research.
Purity And Specificity	Anti-AIF Antibody is directed against human AIF protein. The product was purified from monospecific antiserum by DEAE ion exchange chromatography. A BLAST analysis was used to suggest cross-reactivity with AIF protein from mouse and rat based on 100% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
Assay Dilutions	User Optimized
ELISA	User Optimized
Immunohistochemistry	10 µg/ml
WESTERN BLOT	0.25-1 µg/ml
IHC	10 µg/ml
OTHER ASSAYS	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	AIF Antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to amino acids at an internal region of human AIF protein.
General Reference	Zamzami N, Kroemer G (1999) Condensed matter in cell death. Nature 401:127-128. Susin SA, Lorenzo HK, Zamzami N, et al. (1999) Molecular characterization of mitochondrial apoptosis-inducing factor. Nature 397:441-446.

Daugas E, Susin SA, Zamzami N, et al. (2000) Mitochondrio-nuclear translocation of AIF in apoptosis and necrosis. FASEB J. 14:729-739.

Related Products

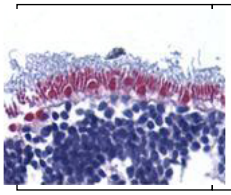
200-401-A34	Anti-Survivin (RABBIT) Antibody - 200-401-A34
600-401-268	Anti-AKT pS473 (RABBIT) Antibody - 600-401-268
600-401-964	Anti-Pdcd4 pS457 (RABBIT) Antibody - 600-401-964
600-401-966	Anti-DAXX (RABBIT) Antibody - 600-401-966

Related Links

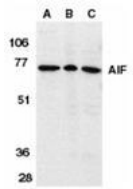
UniProtKB	http://www.uniprot.org/uniprot/O95831
NCBI	http://www.ncbi.nlm.nih.gov/protein/13431764
NCBI - 13431764	http://www.ncbi.nlm.nih.gov/protein/13431764
UniProt - O95831	http://www.uniprot.org/uniprot/O95831
Gene ID - 9131	http://www.ncbi.nlm.nih.gov/gene/9131

Images

1 Immunohistochemistry of AIF in human retina with AIF antibody at 10 µg/ml.



2 Western blot analysis of AIF in K562 cell lysate (A), rat heart (B), and mouse heart (C) tissue lysates with AIF antibody at 1 µg/ml.



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