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AIFM3 Antibody

Catalog # ASC10667

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q96NN9
Other Accession	Q96NN9, 74732608
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	66791
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	AIFM3 antibody can be used for the detection of AIFM3 by Western blot at 0.5 and 1 □g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 □g/mL. For immunofluorescence start at 20 □g/mL.

Additional Information

Gene ID	150209
Other Names	Apoptosis-inducing factor 3, 1.-.-.-, Apoptosis-inducing factor-like protein, AIFM3, AIFL
Target/Specificity	AIFM3;
Reconstitution & Storage	AIFM3 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	AIFM3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AIFM3
Synonyms	AIFL
Function	Induces apoptosis through a caspase dependent pathway. Reduces mitochondrial membrane potential.
Cellular Location	Mitochondrion. Note=Does not translocate to the nucleus upon induction of apoptosis
Tissue Location	Ubiquitous. Expressed in bone marrow, cerebral cortex, liver, ovary, thymus,

thyroid gland and tongue (at protein level).

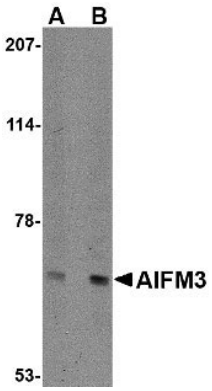
Background

AIFM3 Antibody: Apoptosis, also known as programmed cell death, plays major roles in development and normal tissue turnover in addition to tumor formation. Recently a protein similar to the apoptosis-inducing factor (AIF) was cloned and designated AIFL (also known as AIFM3). AIFM3 is expressed ubiquitously and is predominantly localized to the inner membranes of mitochondria. Unlike AIF, AIFM3 does not translocate to the nucleus upon induction of apoptosis. However, overexpression of AIFM3, like AIF, induced cytochrome c release from the mitochondria, cleavage of caspase 3, and ultimately apoptosis, indicating AIFM3 induces apoptosis through caspase activation. Multiple isoforms of AIFM3 are known to exist.

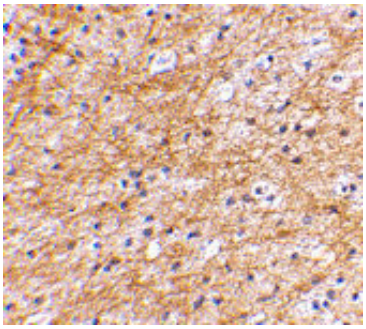
References

Jin Z and El Deiry WS. Overview of cell death signaling pathways. Cancer Biol. Ther.2004; 4:139-63
Xie Q, Lin T, Zhang Y, et al. Molecular cloning and characterization of a human AIF-like gene with the ability to induce apoptosis. J. Biol. Chem.2005; 280:19673-81.

Images

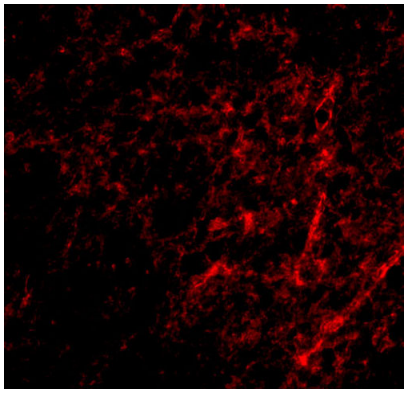


Western blot analysis of NIPSNAP in human brain tissue lysate with NIPSNAP antibody at (A) 0.5 and (B) 1 µg/mL.



Immunohistochemical staining of human brain tissue using AIFM3 antibody at 2.5 µg/mL.

Immunofluorescence of AIFM3 in human brain tissue with AIFM3 antibody at 20 µg/mL.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.