10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AIFM3 Antibody
Catalog # ASC10667

Specification

AIFM3 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	Q96NN9
Other Accession	Q96NN9, 74732608
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**AIFM3 antibody can be used for the detection of AIFM3 by Western blot at 0.5 and 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.**

AIFM3 Antibody - Additional Information

Gene ID	**150209**

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.

AIFM3 Antibody - 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

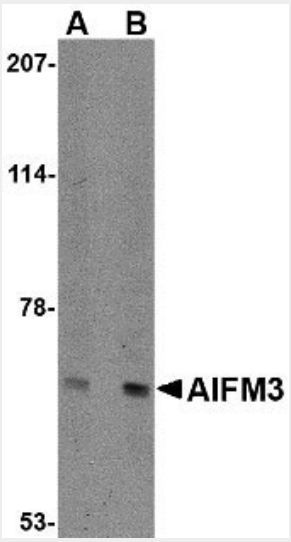
tongue (at protein level).

AIFM3 Antibody - Protocols

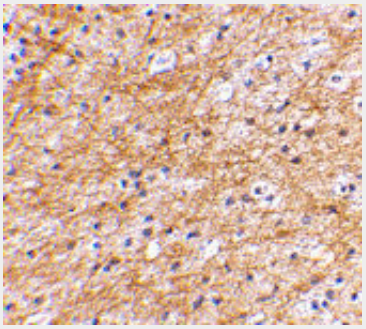
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

AIFM3 Antibody - Images

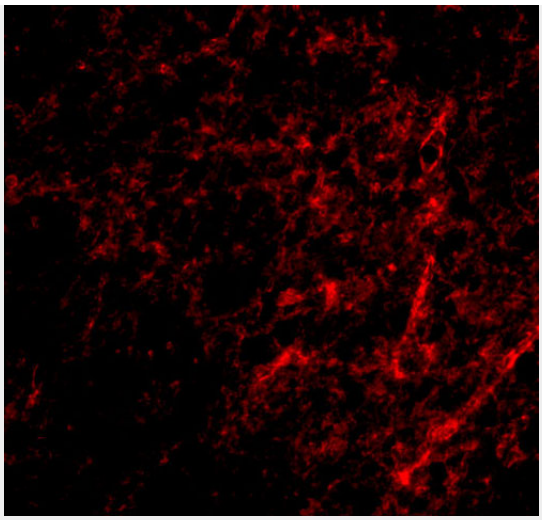


Western blot analysis of NIPSNAP in human brain tissue lysate with NIPSNAP antibody at (A) 0.5 and (B) 1 µg/mL.



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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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

AIFM3 Antibody - 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.

AIFM3 Antibody - 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.