

Product datasheet for **AP22931PU-N**

AIF (AIFM1) (593-606) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	ELISA. Immunocytochemistry. Immunohistochemistry on Paraffin Sections: 5 µg/ml. Western Blot: 0.25 - 1 µg/ml.
Reactivity:	Bat, Canine, Chicken, Equine, Fish, Hamster, Human, Monkey, Mouse, Opossum, Porcine, Rabbit, Rat, Xenopus, Bear, Bovine
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	AIFM1 antibody was raised against synthetic peptide corresponding to amino acids 593 to 606 of human AIF
Specificity:	This antibody reacts to amino acids 593 to 606 of Apoptosis-inducing Factor (AIFM1, PDCD8).
Formulation:	PBS containing 0.02% sodium azide State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	apoptosis inducing factor, mitochondria associated 1
Database Link:	<u>Entrez Gene 26926 Mouse</u> <u>Entrez Gene 83533 Rat</u> <u>Entrez Gene 9131 Human O95831</u>



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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 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 the critical molecules, cytochrome c and caspase-9, in apoptosis, AIF localizes in 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, of the isolated nucleus and the nucleus in live cells by microinjection and apoptosis stimuli. AIF is highly conserved between human and mouse and widely expressed.

Synonyms:

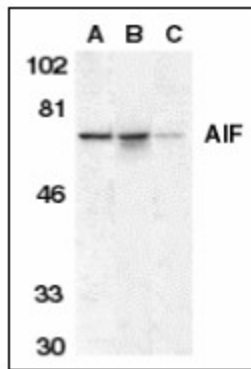
PDCD8

Protein Families:

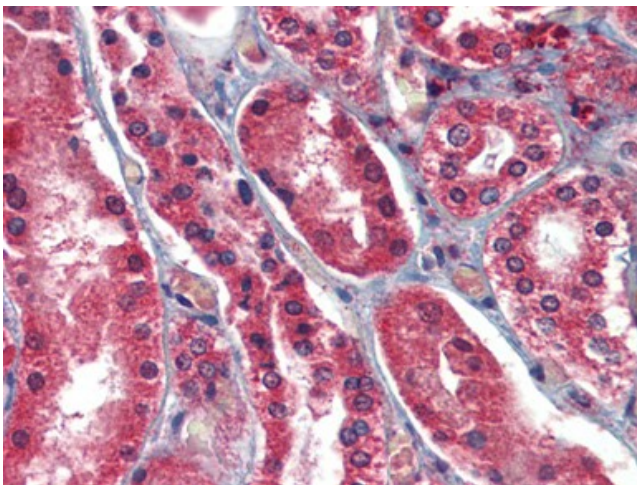
Druggable Genome, Transmembrane

Protein Pathways:

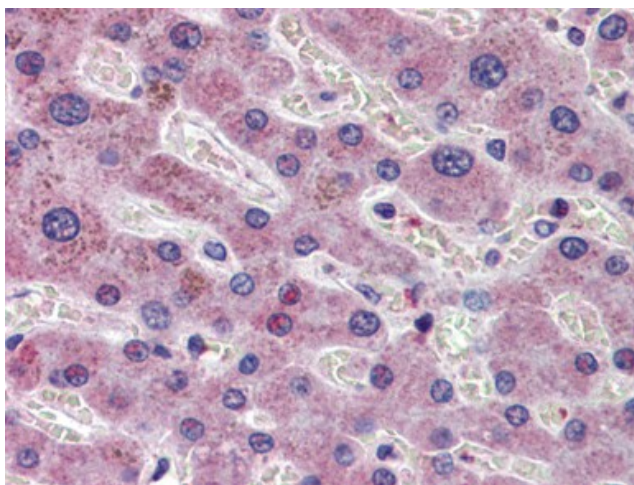
Apoptosis

Product images:

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



Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)