

Product datasheet for **TA306028**

AIF (AIFM1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1 ug/mL, ICC: 2 ug/mL, IF: 20 ug/mL
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	AIF antibody was raised against a peptide corresponding to amino acids near the amino terminus of mature human AIF. The immunogen is located within amino acids 90 - 140 of AIF.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Ion exchange chromatography purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	apoptosis inducing factor, mitochondria associated 1
Database Link:	NP_001124318 Entrez Gene 9131 Human O95831



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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 (1). A novel gene, the product of which causes chromatin condensation and DNA fragmentation, was recently identified, cloned, and designated apoptosis inducing factor (AIF) (2). 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 DNA fragmentation, which are the hallmarks of apoptosis, of the isolated nucleus and the nucleus in live cells by microinjection. AIF is highly conserved between human and mouse and widely expressed (2).

Synonyms:

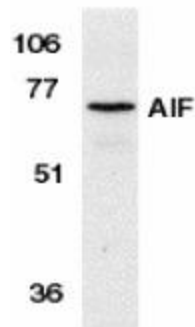
AIF; CMT2D; CMTX4; COWCK; COXPD6; NADMR; NAMSD; PDCD8

Protein Families:

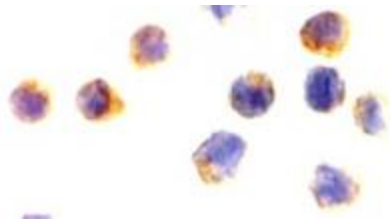
Druggable Genome, Transmembrane

Protein Pathways:

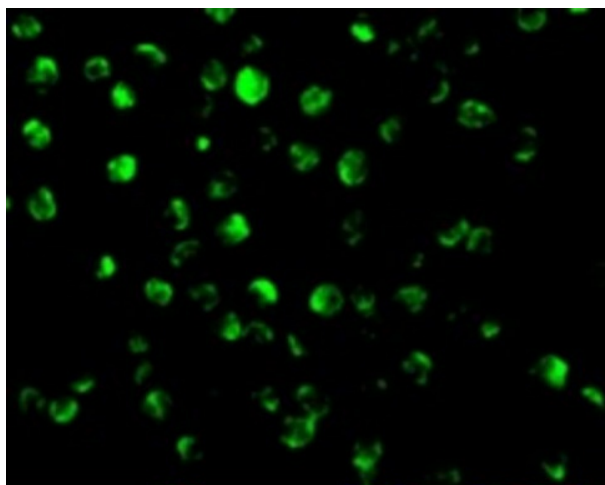
Apoptosis

Product images:


Western blot analysis of AIF in K562 cell lysate with AIF antibody at 1 ug/mL.



Immunocytochemistry of AIF in Jurkat cells with AIF antibody at 2 ug/mL.



Immunofluorescence of AIF in K562 cells with AIF antibody at 20 ug/mL.