

AIF Polyclonal Antibody

Catalog NumberPA5-27698

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Type	Antibody	Western Blot (WB)	1:500-1:10,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 170 of Human AIF	Immunocytochemistry (ICC/IF)	1:100-1:1,000
		Dilution *	
Conjugate	Unconjugated	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Form	Liquid		
Concentration	0.72 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	0.1M tris glycine, pH 7, with 10% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: 293T, A431, HeLa, HepG2, A375. Predicted reactivity: Pig (81%), Bovine (85%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

Apoptosis Inducing Factor (AIF) causes chromatin condensation and DNA fragmentation. AIF was recently identified, and cloned. 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. 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. Mutations in the AIF gene cause combined oxidative phosphorylation deficiency 6, which results in a severe mitochondrial encephalomyopathy. Alternative splicing results in multiple transcript variants of AIF and a related pseudogene has been identified on chromosome 10.

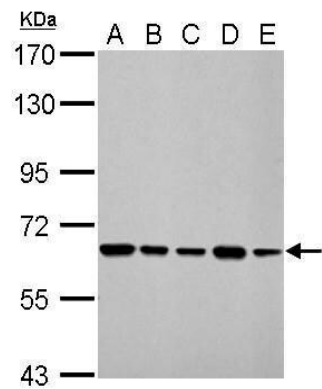
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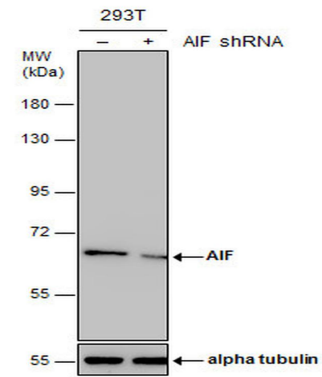
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Product Images For AIF Polyclonal Antibody



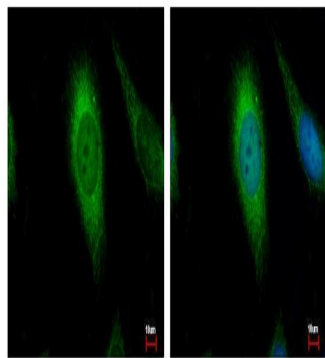
AIF Antibody (PA5-27698) in WB

AIF Polyclonal Antibody detects AIFM1 protein by Western blot analysis. A. 30 µg 293T whole cell lysate/extract. B. 30 µg A431 whole cell lysate/extract. C. 30 µg HeLa whole cell lysate/extract. D. 30 µg HepG2 whole cell lysate/extract. E. 30 µg A375 whole cell lysate/extract. 7.5 % SDS-PAGE. AIF Polyclonal Antibody (Product # PA5-27698) dilution: 1:1,000.



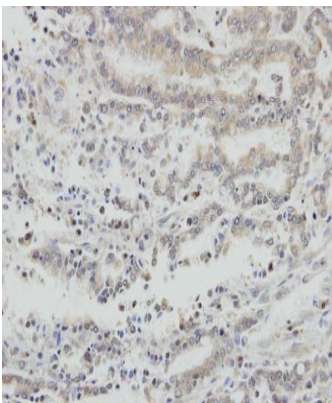
AIF Antibody (PA5-27698)

Antibody specificity was demonstrated by shRNA mediated knockdown of the target protein. 293T cells were transfected with AIF shRNA and decrease in signal intensity was observed in western blot application using AIF antibody [N1N2], N-term (Product # PA5-27698). {KD}



AIF Antibody (PA5-27698) in ICC/IF

AIF Polyclonal Antibody detects AIFM1 protein at Mitochondria by immunofluorescent analysis. Sample: HeLa cells were fixed in 2% paraformaldehyde/culture medium at 37°C for 30 min. Green: AIFM1 protein stained by AIF Polyclonal Antibody (Product # PA5-27698) diluted at 1:500. Blue: Hoechst 33343 staining.



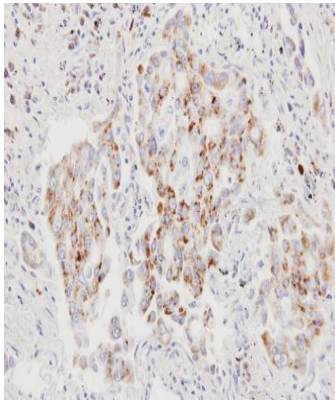
AIF Antibody (PA5-27698) in IHC (P)

Immunohistochemical analysis of paraffin-embedded human gastric cancer, using AIF (Product # PA5-27698) antibody at 1:100 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.

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Immunohistochemical analysis of paraffin-embedded human lung cancer, using AIF (Product # PA5-27698) antibody at 1:100 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.

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