

Product Datasheet

AIF Antibody NBP2-42496

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NBP2-42496

AIF Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description	
Host	Goat
Gene ID	9131
Gene Symbol	AIFM1
Species	Human, Mouse, Rat, Porcine
Reactivity Notes	Expected from sequence similarity: Bovine
Specificity/Sensitivity	This antibody is expected to recognize isoform 1 (NP_004199.1), isoform 2 (NP_665811.1), isoform 3 (NP_665812.1) and isoform 4 (NP_001124318.1).
Immunogen	Peptide with sequence C-NEVAKLFNIHED corresponding to C-Terminus according to NP_665811.1, NP_665812.1, NP_001124318.1.

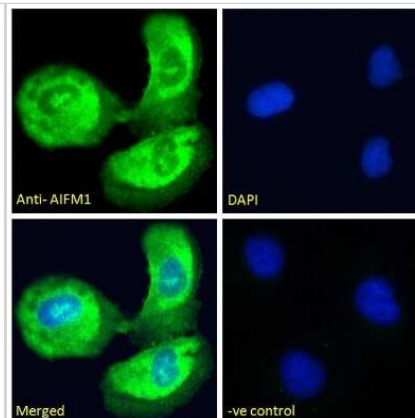
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 0.01 - 0.1 ug/mL, Immunocytochemistry/ Immunofluorescence 10 ug/mL, Immunohistochemistry-Paraffin 5 ug/mL, Peptide ELISA Detection limit 1:128000
Application Notes	Western blot: Approx 70 kDa band observed in lysates of cell line Jurkat and NIH3T3, and in Mouse and Rat Heart and Kidney lysates. Approx. 65 kDa observed in Pig Heart lysates (calculated MW of 66.9 kDa according to Human NP_004199.1 and 66.8 kDa according to Mouse NP_036149.1, Rat NP_112646.1 and Pig NP_001284561.1). Immunofluorescence: Strong expression of the protein seen in the Mitochondria of HeLa and U2OS cells.

Images

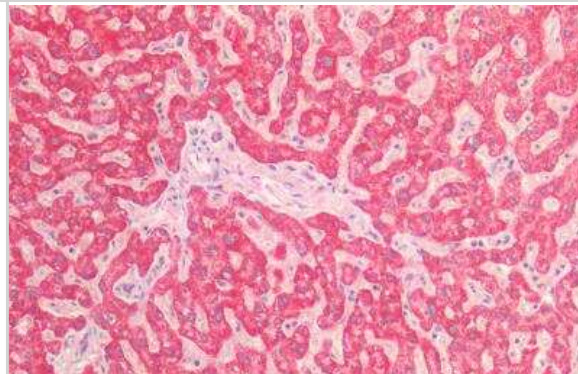
Western Blot: AIF Antibody [NBP2-42496] - Staining of Jurkat lysate (35 ug protein in RIPA buffer). Antibody at 0.01 ug/mL. Detected by chemiluminescence.

250kDa
150kDa
100kDa
75kDa
50kDa
37kDa
25kDa
20kDa
15kDa

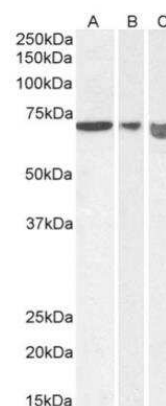
Immunocytochemistry/Immunofluorescence: AIF Antibody [NBP2-42496]
 - Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (4 ug/mL), showing Mitochondrial staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4 ug/mL).



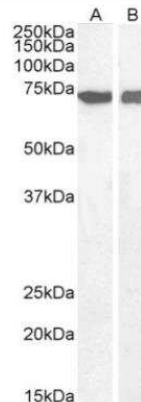
Immunohistochemistry-Paraffin: AIF Antibody [NBP2-42496] - Staining of paraffin embedded Human Liver. Antibody at 5 ug/mL. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Western Blot: AIF Antibody [NBP2-42496] - Staining of Mouse (A), Rat (B) and Pig (C) Heart lysate (35 ug protein in RIPA buffer). Antibody at 0.01 ug/mL. Primary incubation was 1 hour. Detected by chemiluminescence.



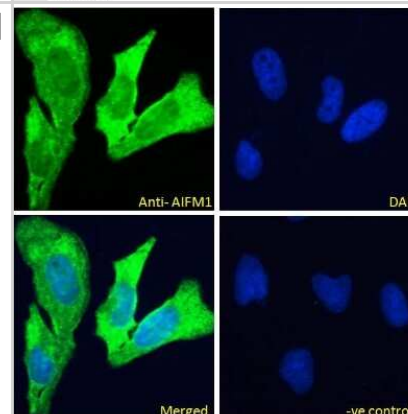
Western Blot: AIF Antibody [NBP2-42496] - Staining of Mouse (A) and Rat (B) Kidney lysate (35 ug protein in RIPA buffer). Antibody at 0.03 ug/mL. Primary incubation was 1 hour. Detected by chemiluminescence



Western Blot: AIF Antibody [NBP2-42496] - Staining of NIH3T3 lysate (35 ug protein in RIPA buffer). Antibody at 0.1 ug/mL. Detected by chemiluminescence.

250kDa
150kDa
100kDa
75kDa
50kDa
37kDa
25kDa
20kDa
15kDa

Immunocytochemistry/Immunofluorescence: AIF Antibody [NBP2-42496] - Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (4 ug/mL), showing Mitochondrial staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (4 ug/mL).



Publications

Pandolfo M, Rai M, Remiche G et al. Cerebellar ataxia, neuropathy, hearing loss, and intellectual disability due to AIFM1 mutation *Neurol Genet* 2020-06-01 [PMID: 32337346] (WB, Human)

Lewis EM, Wilkinson AS, Jackson JS et al. The enzymatic activity of apoptosis-inducing factor supports energy metabolism benefiting the growth and invasiveness of advanced prostate cancer cells. *J Biol Chem* 2012-12-01 [PMID: 23118229]



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Products Related to NBP2-42496

HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
NBP2-51612-0.1mg	Recombinant Human AIF His Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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