

## Product Datasheet

### AIFM1 Antibody (orb1239191)

<b>Catalog Number</b>	orb1239191
<b>Category</b>	Antibodies
<b>Description</b>	AIFM1 Antibody
<b>Target</b>	AIFM1
<b>Clonality</b>	Polyclonal
<b>Species/Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human
<b>Predicted Reactivity</b>	Mouse, Rat
<b>Form/Appearance</b>	Liquid
<b>Concentration</b>	1 mg/ml
<b>Buffer/Preservatives</b>	AIF Antibody is supplied in PBS containing 0.02% sodium azide.
<b>Purification</b>	AIF Antibody is Ion exchange chromatography purified.
<b>Immunogen</b>	Anti-AIF antibody (orb1239191) was raised against a peptide corresponding to 14 amino acids near the amino terminus of mature human AIF. The immunogen is located within amino acids 90-140 of AIF.
<b>UniProt ID</b>	<b>O95381</b>
<b>MW</b>	Predicted: 67 kDa Observed: 68 kDa

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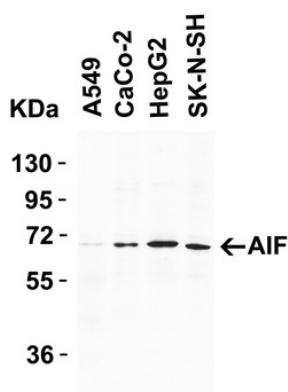
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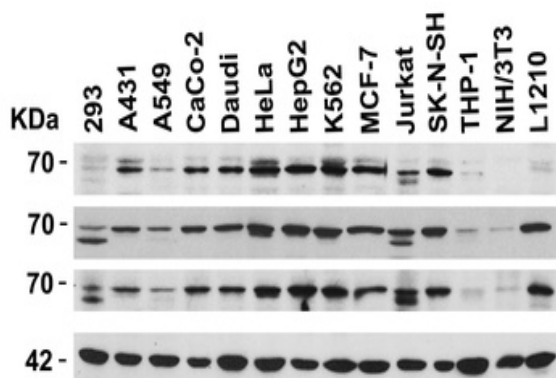
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<b>Tested applications</b>	ELISA, IF, WB
<b>Specificity</b>	Multiple isoforms of AIF are known to exist.
<b>Antibody Type</b>	Primary Antibody
<b>Modifications</b>	None
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>NCBI</b>	<b>O95381</b>
<b>Expiration Date</b>	12 months from date of receipt.



Western Blot Validation in Human Cell Lines. Loading: 15 µg of lysates per lane. Antibodies: AIF orb1239191, (1 µg/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Independent Antibody Validation (IAV) via Protein Expression Profile in Cell Lines. Loading: 15 µg of lysates per lane. Antibodies: AIF orb1239169, (1 µg/mL), AIF orb1239191, (1 µg/mL), AIF orb1239168, (2 µg/mL), and beta-actin (1 µg/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

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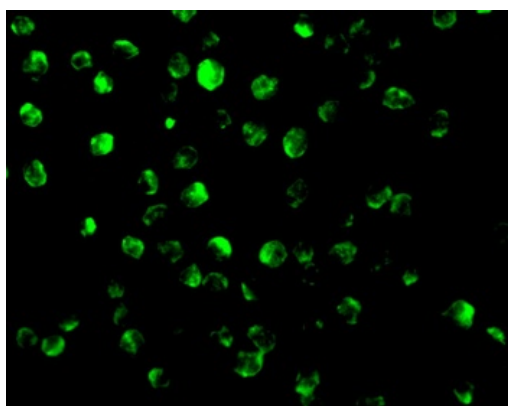
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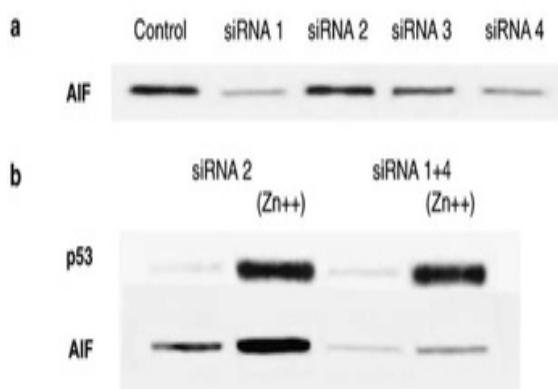
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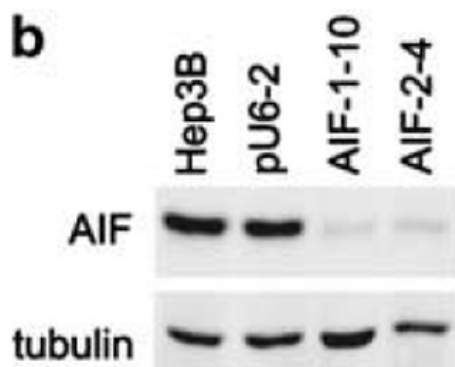


**Immunofluorescence Validation of AIF in K562 Cells.**

Immunofluorescent analysis of 4% paraformaldehyde-fixed K562 Cells labeling AIF with orb1239191 at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green).



**KD and Induced Validation of AIF in H1299 Cells** (Stambolsky et al., 2006). Western blot analysis of AIF knockdown with anti-AIF antibodies in H1299 cells. AIF expression was disrupted in AIF knockdown cells (siRNA1 and siRNA4). An increased expression of AIF was induced by ZnCl<sub>2</sub> treatment, which was not observed in AIF knockdown cells.



**KD Validation of AIF in AIF Silenced Stable Cells** (Apostolova et al., 2006). AIF silencing is sustained in stable cell lines. Western blot analysis of stable lines AIF-1-10, AIF-2-4 and pU6-2 using anti-AIF antibodies. AIF protein was disrupted after AIF silencing with AIF siRNA (AIF-1-10 and AIF-2-4) as compared to control (Hep3B and pU6-2).

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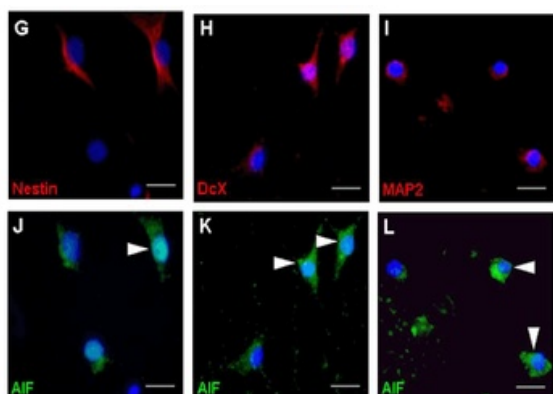
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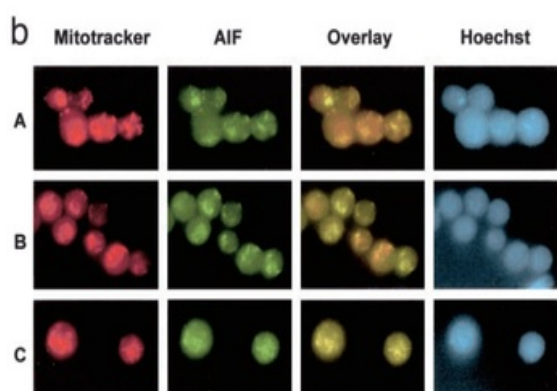
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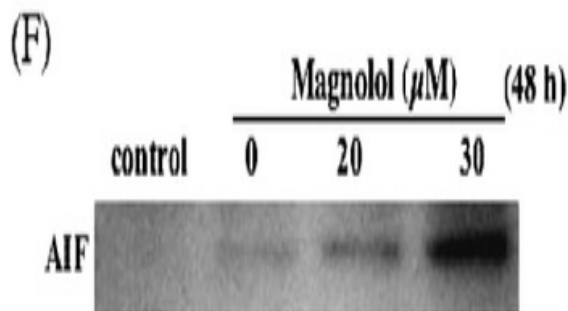
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Immunofluorescence Validation of AIF in Rat Hippocampal Neurons (Hofer et al., 2011). (G-L) After exposure to bacterial components, AIF colocalized in mature neurons (MAP2; I, L), immature neurons (DcX; H, K), and stem/progenitor cells (Nestin; G, J). AIF expression was detected by anti-AIF antibodies.



Subcellular Localization Validation of AIF in mononuclear cells (Gupta et al., 2003). A shows mononuclear cells (MNCs) alone, B shows MNCs transfected with control plasmid, C shows MNCs transfected with Bcl-2 expression plasmid. Overlay is of Mitotracker (red) and AIF (green). Hoechst 33258 dye is used to examine chromatin fragmentation. The release of AIF from mitochondria is detected by anti-AIF antibodies.



Induced Expression Validation of AIF in U937 Cells (Ikai et al., 2006). Release of AIF at 48 h after the treatment with 30 μM magnolol examined by Western blot Analysis with anti-AIF antibodies. AIF release was markedly increased 48h after magnolol treatment.

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