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Research Use Only. Not for diagnostic or therapeutic use.

# EB12621 - Goat Anti-AIFM1 (aa183-195) Antibody

Size: 100µg specific antibody in 200µl



### **Target Protein**

**Principal Names:** AIFM1, apoptosis-inducing factor, mitochondrion-associated, 1, AIF, CMTX4, COWCK, COXPD6, PDCD8, apoptosis-inducing factor 1, mitochondrial, programmed cell death 8 (apoptosis-inducing factor), striatal apoptosis-inducing factor

Official Symbol: AIFM1

Accession Number(s): NP\_004199.1; NP\_665811.1; NP\_001124319.1

Human GeneID(s): 9131

**Important Comments:** This antibody is expected to recognize isoform 1 (NP\_004199.1), isoform 2 (NP\_665811.1) and isoform 5 (NP\_001124319).

## **Immunogen**

Peptide with sequence C-DDPNVTKTLRFKQ, from the internal region of the protein sequence according to NP\_004199.1; NP\_665811.1; NP\_001124319.1.

Please note the peptide is available for sale.

## **Purification and Storage**

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

## **Applications Tested**

Peptide ELISA: antibody detection limit dilution 1:128000.

**Western blot:** Approx 70kDa band observed in lysates of cell line Jurkat (calculated MW of 66.9kDa according to NP\_004199.1). Recommended concentration: 0.1-0.3μg/ml. Primary incubation 1 hour at room temperature.

IHC: Paraffin embedded Human Kidney. Recommended concentration: 5-7µg/ml.

**Immunofluorescence:** Strong expression of the protein seen in the Mitochondria of HeLa and NIH3T3 cells. Recommended concentration: 5-10µg/ml.

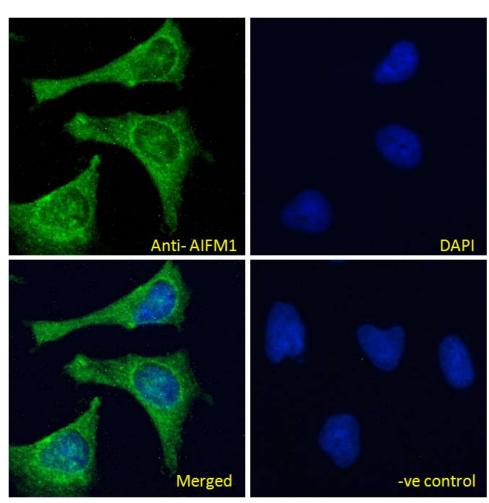
#### **Species Reactivity**

Tested: Human, Mouse

Expected from sequence similarity: Human, Cow

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

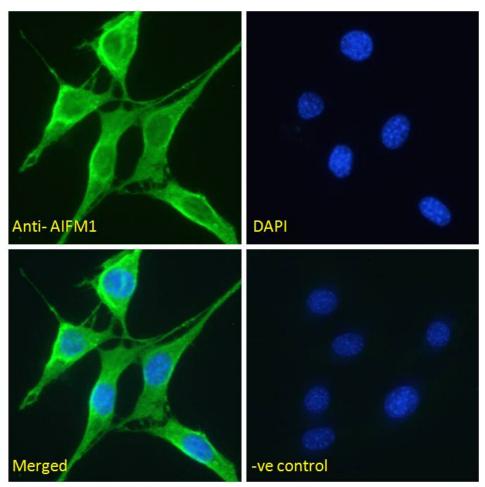
EB12621 (0.1µg/ml) staining of Jurkat lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



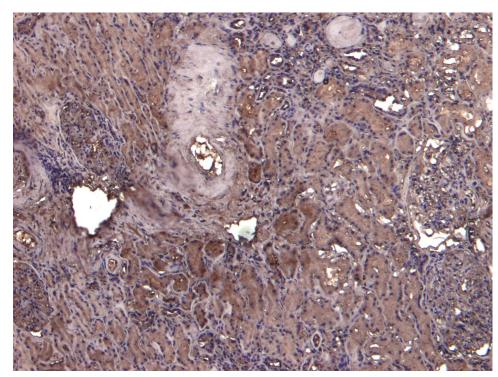
EB12621 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton.

Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (4ug/ml), showing

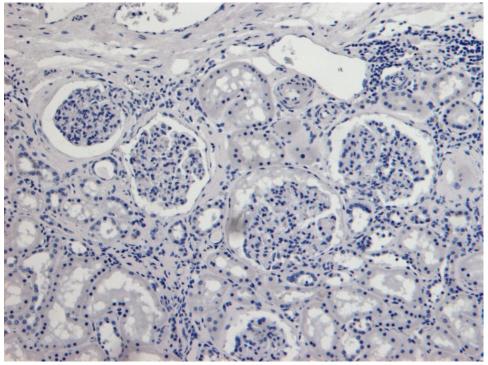
Mitochondrial staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml)



EB12621 Immunofluorescence analysis of paraformaldehyde fixed NIH3T3 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing Mitochondrial staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB12621 (5µg/ml) staining of paraffin embedded Human Kidney. Heat induced antigen retrieval with citrate buffer Ph 6, HRP-staining.



EB12621 Negative Control showing staining of paraffin embedded Human Kidney, with no primary antibody.