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EB12622 - Goat Anti-AIFM1 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_665812.1; NP_001124318.1
Human GeneID(s): 9131
Non-Human GeneID(s): 26926 (mouse), 83533 (rat)
Important Comments: 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, from the C Terminus of the protein sequence according to NP_004199.1; NP_665811.1; NP_665812.1; NP_001124318.1.

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 and NIH3T3, and in Mouse and Rat Heart and Kidney lysates. Approx. 65kDa observed in Pig Heart lysates (calculated MW of 66.9kDa according to Human NP_004199.1 and 66.8kDa according to Mouse NP_036149.1, Rat NP_112646.1 and Pig NP_001284561.1). Recommended concentration: 0.01-0.1µg/ml. Primary incubation 1 hour at room temperature.

Immunofluorescence: Strong expression of the protein seen in the Mitochondria of HeLa and U2OS cells. Recommended concentration: 10µg/ml.

Species Reactivity

Tested: Human, Mouse, Rat, Pig
Expected from sequence similarity: Human, Mouse, Rat, Dog, Pig, Cow

EB12622 (0.01µg/ml) staining of Jurkat lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB12622 (0.1µg/ml) staining of NIH3T3 lysate (35µg protein in RIPA buffer) Detected by chemiluminescence.

EB12622 (0.01µg/ml) staining of Mouse (A), Rat (B) and Pig (C) Heart lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

EB12622 (0.03µg/ml) staining of Mouse (A) and Rat (B) Kidney lysate (35µg protein in RIPA buffer). Detected by chemiluminescence

EB12622-P1 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) followed by Alexa Fluor 488 secondary antibody (4ug/ml).

EB12622-P1 Immunofluorescence analysis of paraformaldehyde fixed U2OS 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) followed by Alexa Fluor 488 secondary antibody (4ug/ml).