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EB09741 - Goat Anti-ACAT1 (aa253-266) Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: ACAT1, acetyl-Coenzyme A acetyltransferase 1, ACAT, MAT, T2, THIL, acetoacetyl Coenzyme A thiolase, acetyl-CoA acetyltransferase 1, mitochondrial acetoacetyl-CoA thiolase
Official Symbol: ACAT1
Accession Number(s): NP_000010.1
Human GeneID(s): 38
Non-Human GeneID(s): 110446 (mouse), 25014 (rat)

Immunogen

Peptide with sequence C-DEEYKRVDFSKVPK, from the internal region of the protein sequence according to NP_000010.1.

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

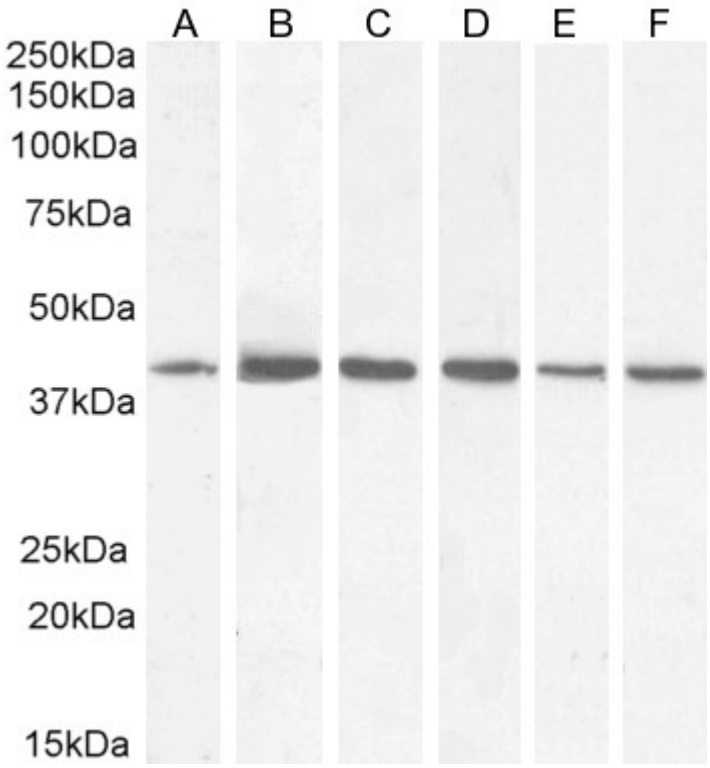
Peptide ELISA: antibody detection limit dilution 1:4000.
Western blot: Approx. 40kDa band observed in lysates of cell lines CAC02, HEK293, HepG2, MCF7, NIH3T3 and KNRK and approx. 38-40kDa in Human, Mouse and Rat Liver lysates (calculated MW of 45.2kDa according to Human NP_000010.1, 44.81kDa according to Mouse NP_659033.1 and 44.7kDa according to Rat NP_058771.2). Recommended concentration: 0.01-0.5µg/ml. Primary incubation 1 hour at room temperature.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm of U2OS and A431 cells. Recommended concentration: 10µg/ml.

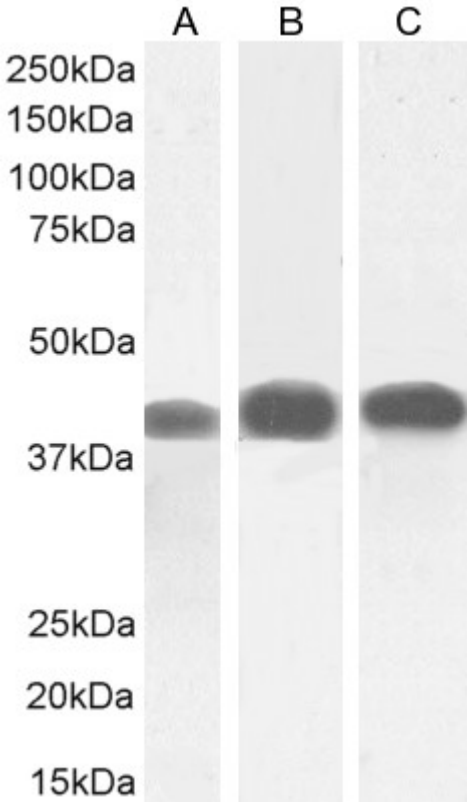
Flow Cytometry: Flow cytometric analysis of A431 cells. Recommended concentration: 10ug/ml.

Species Reactivity

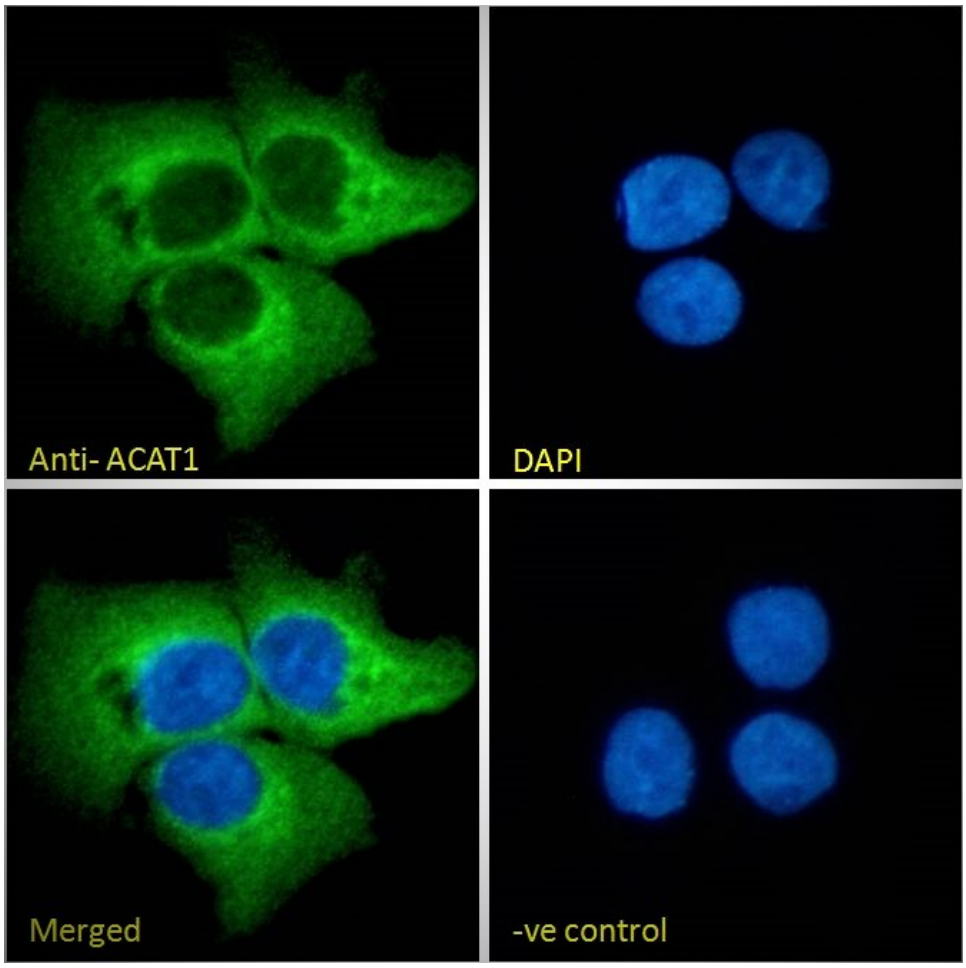
Tested: Human, Mouse, Rat
Expected from sequence similarity: Human, Mouse, Rat, Dog, Cow



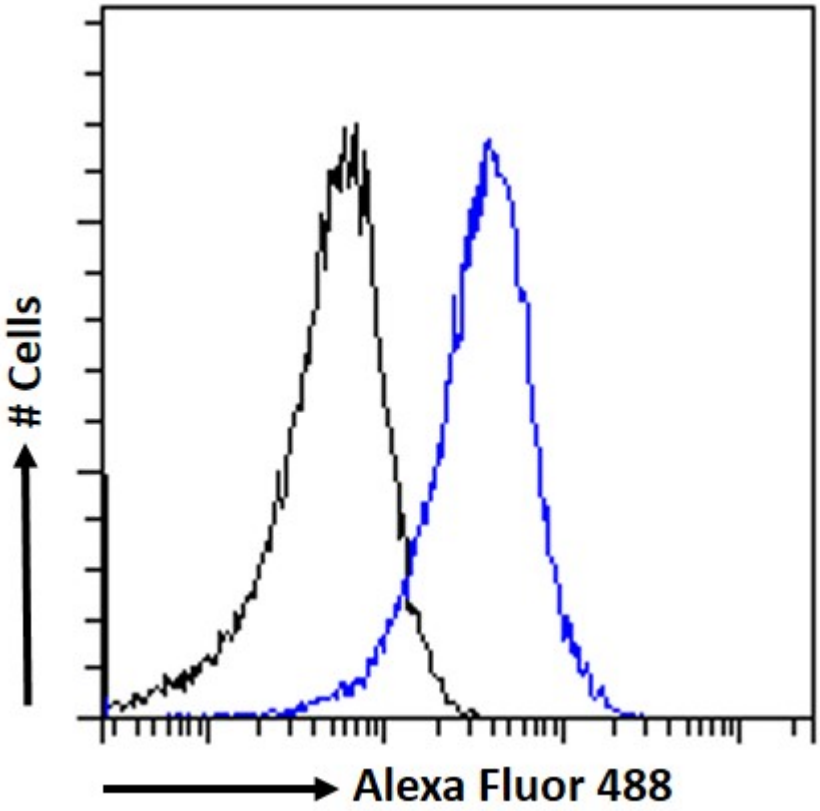
EB09741 (0.5µg/ml) staining of KNRK (A) and MCF7 (B), and (0.1µg/ml) HepG2 (C), Caco-2 (D), HEK293 (E), and NIH3T3 (F) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB09741 (0.01µg/ml) staining of Human (A), and (0.1µg/ml) Mouse (B) and Rat (C), Liver lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB09741 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB09741 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.