

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## 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-DEEYKRVDVFSKVPK, 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.

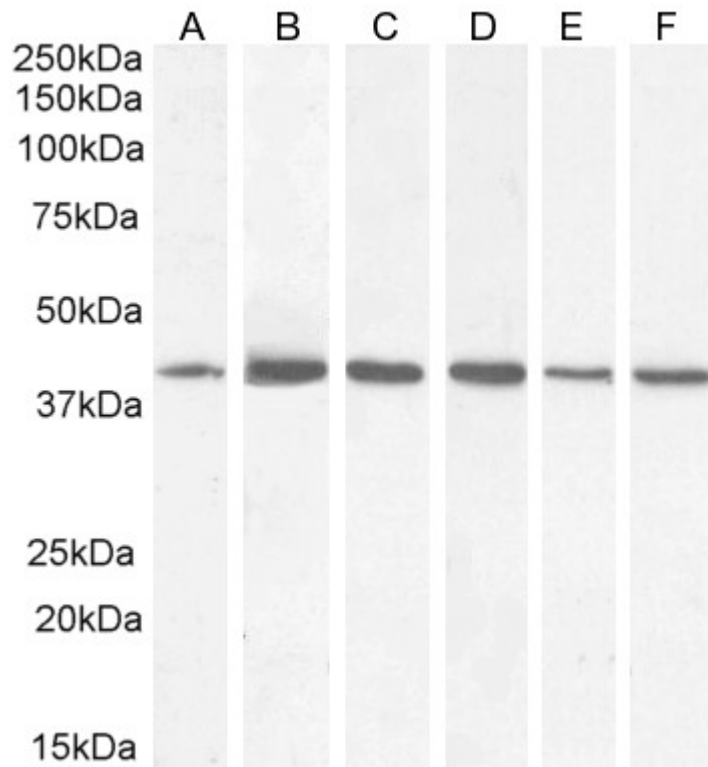
**Immunofluorescence:** Strong expression of the protein seen in the cytoplasm of U2OS and A431 cells. Recommended concentration: 10µg/ml.

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

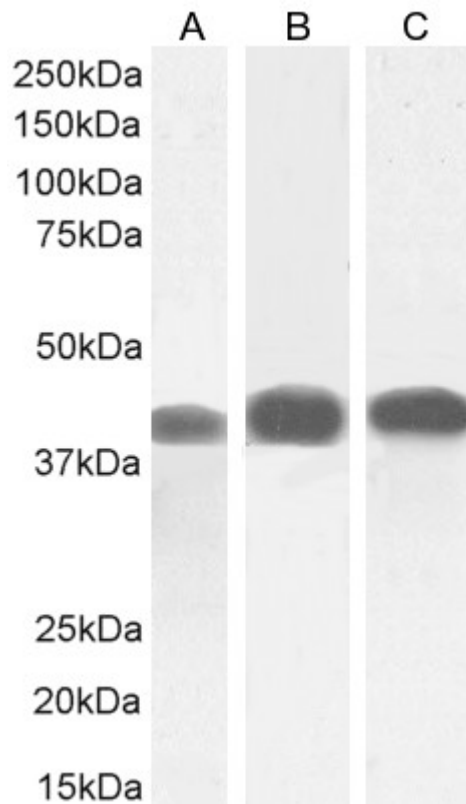
### Species Reactivity

**Tested:** Human, Mouse, Rat

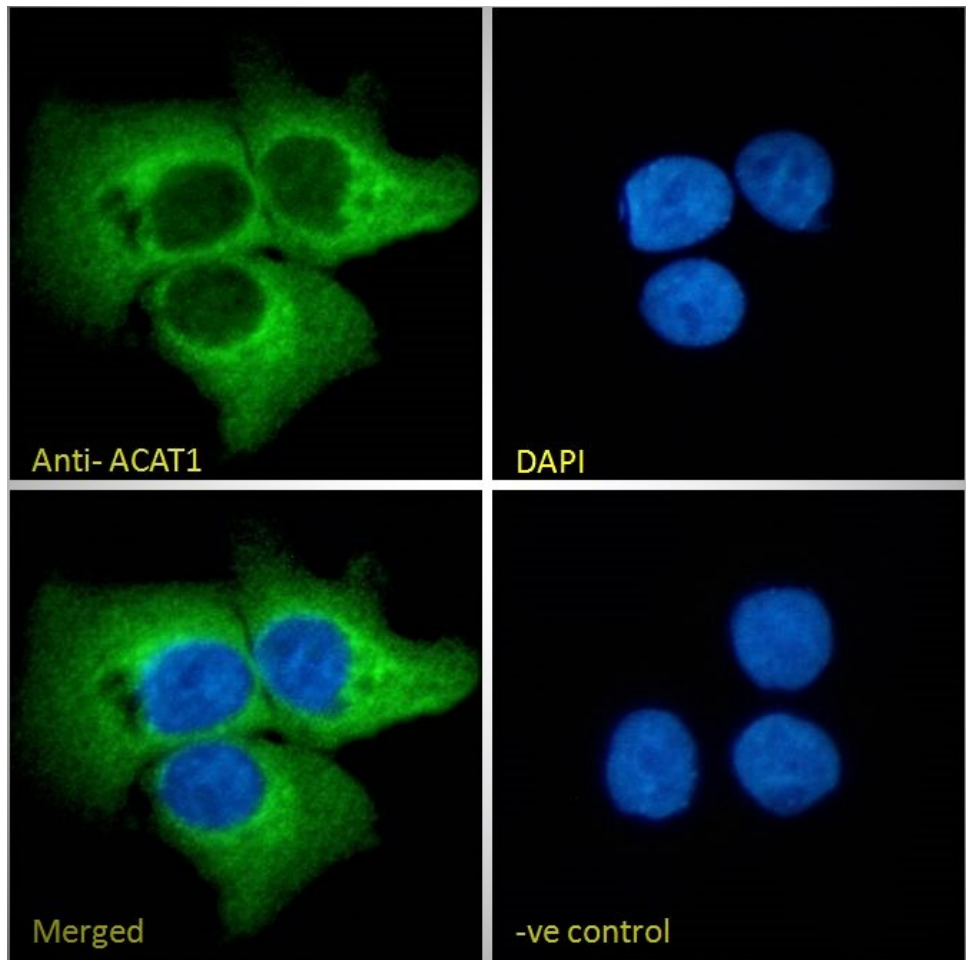
**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Cow



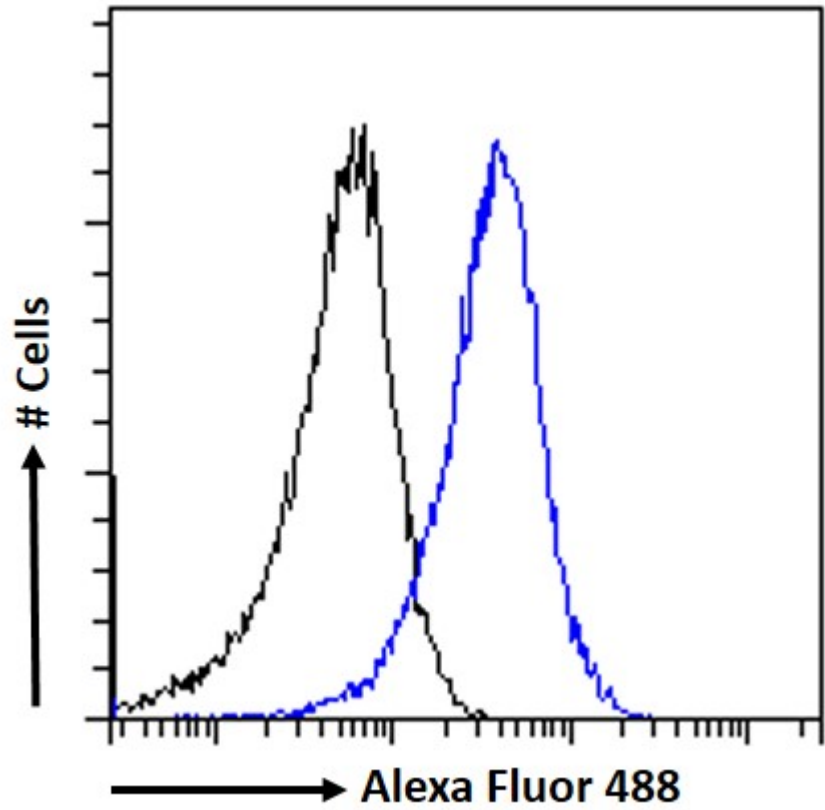
EB09741 (0.5 $\mu$ g/ml) staining of KNRK (A) and MCF7 (B), and (0.1 $\mu$ g/ml) HepG2 (C), Caco-2 (D), HEK293 (E), and NIH3T3 (F) cell lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB09741 (0.01 $\mu$ g/ml) staining of Human (A), and (0.1 $\mu$ g/ml) Mouse (B) and Rat (C), Liver lysate (35 $\mu$ g 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.