

International Office

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Research Use Only. Not for diagnostic or therapeutic use.

EB05662 - Goat Anti-FACL4 / ACSL4 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: ACSL4, acyl-CoA synthetase long-chain family member 4, FACL4, fatty-acid-Coenzyme A ligase, long-chain 4, ACS4, LACS 4, lignoceroyl-CoA synthase, Fatty acid coenzyme A ligase, long-chain 4, MRX63, LACS4, MRX68, acyl-CoA synthetase 4, long-chain fatty-acid-Coenzyme A ligase 4 Official Symbol: ACSL4 Accession Number(s): NP_004449.1; NP_075266.1 Human GenelD(s): 2182 Non-Human GenelD(s): 50790 (mouse), 113976 (rat) Important Comments: This antibody is expected to recognise isoform 1 (NP_004449.1) and isoform 2 (NP_075266.1).

Immunogen

Peptide with sequence C-HYLKDIERMYGGK, from the C Terminus of the protein sequence according to NP_004449.1; NP_075266.1.

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 80-85kDa band observed in lysates of cell line HepG2 and approx 75kDa in preliminary testing of Human Adipose lysate (calculated MW of 79.2kDa according to NP_075266.1 and 74.4kDa according to NP_004449.1). Recommended concentration: 0.1-0.3µg/ml. Primary incubation 1 hour at room temperature. **IHC:** Paraffin embedded Human Small Intestine and Brain (Cortex). Recommended concentration: 3.75µg/ml.

Immunofluorescence: Strong expression of the protein seen in the Golgi and Endoplasmic reticulum of HeLa cells. Recommended concentration: 10µg/ml.

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

Additional validation: This antibody has been successfully used in the following paper: Sikorski et al. (2018) PMID: 30377371.

Species Reactivity

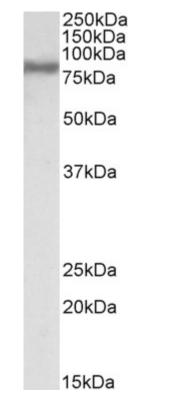
Tested: Human Expected from sequence similarity: Human, Mouse, Rat, Dog, Pig, Cow

Specific Reference

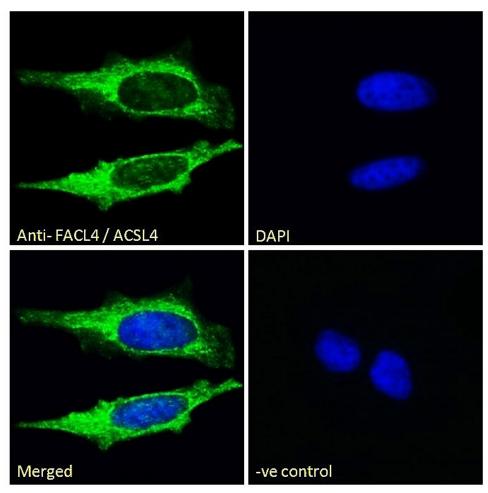
This antibody has been successfully used in the following paper:

Krzysztof Sikorski, Adi Mehta, Marit Inngjerdingen, Flourina Thakor, Simon Kling, Tomas Kalina, Tuula A. Nyman, Maria Ekman Stensland, Wei Zhou, Gustavo A. De Souza, Lars Holden, Jan Stuchly, Markus Templin and Fridtjof Lund-Johansen

A high-throughput pipeline for validation of antibodies Nat Methods. 2018 Nov;15(11):909-912 PMID: 30377371

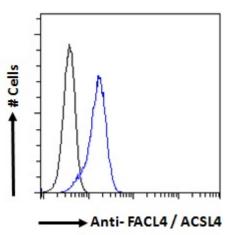


EB05662 (0.1µg/ml) staining of HepG2 cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.

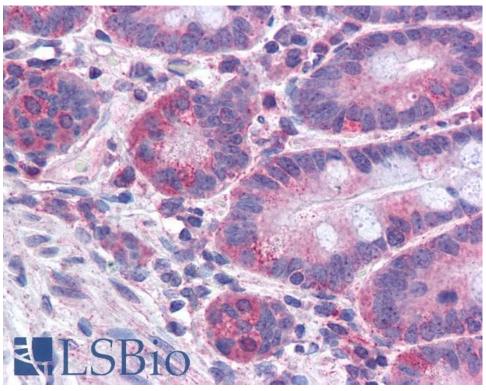


EB05662 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing Golgi and

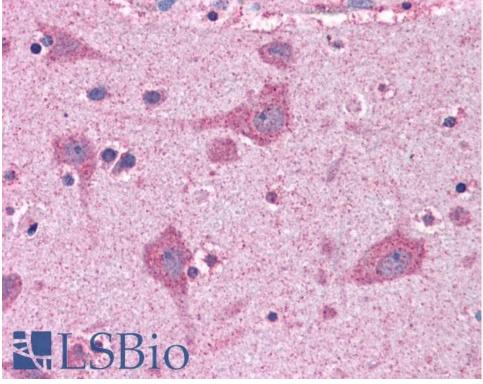
Endoplasmic reticulum staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB05662 Flow cytometric analysis of paraformaldehyde fixed HeLa 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.



EB05662 (3.75µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB05662 (3.75µg/ml) staining of paraffin embedded Human Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.