

# **FACL4 Antibody**

Rabbit mAb Catalog # AP92652

#### **Product Information**

**Application** WB, IHC, IF, FC, ICC, IP, IHF

Primary Accession 060488

**Reactivity** Rat, Human, Mouse

**Clonality** Monoclonal

Other Names ACS4; Acsl4; acyl CoA synthetase 4; FACL4; Fatty acid Coenzyme A ligase;

LACS4; Long chain 4; long chain fatty acid Coenzyme A ligase 4; MRX63;

MRX68;

IsotypeRabbit IgGHostRabbitCalculated MW79188

#### **Additional Information**

**Dilution** WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:50

**Purification** Affinity-chromatography

**Immunogen** A synthesized peptide derived from FACL4

**Description** Activation of long-chain fatty acids for both synthesis of cellular lipids, and

degradation via beta-oxidation. Preferentially uses arachidonate and

eicosapentaenoate as substrates.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

### **Protein Information**

Name ACSL4

**Synonyms** ACS4, FACL4, LACS4

**Function** Catalyzes the conversion of long-chain fatty acids to their active form

acyl-CoA for both synthesis of cellular lipids, and degradation via

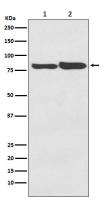
beta-oxidation (PubMed:<u>21242590</u>, PubMed:<u>22633490</u>, PubMed:<u>24269233</u>). Preferentially activates arachidonate and eicosapentaenoate as substrates (PubMed:<u>21242590</u>). Preferentially activates 8,9-EET > 14,15-EET > 5,6-EET > 11,12-EET. Modulates glucose- stimulated insulin secretion by regulating the levels of unesterified EETs (By similarity). Modulates prostaglandin E2

secretion (PubMed:21242590).

**Cellular Location** Mitochondrion outer membrane; Single-pass type III membrane protein.

Peroxisome membrane; Single-pass type III membrane protein. Microsome membrane; Single-pass type III membrane protein. Endoplasmic reticulum

## **Images**



Western blot analysis of FACL4 expression in (1) HeLa cell lysate; (2) 293 cell lysate.

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