

# FACL6 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2537b

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">Q9UKU0</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB4703
<b>Calculated MW</b>	77752
<b>Antigen Region</b>	240-270

## Additional Information

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<b>Gene ID</b>	23305
<b>Other Names</b>	Long-chain-fatty-acid--CoA ligase 6, Long-chain acyl-CoA synthetase 6, LACS 6, ACSL6, ACS2, FACL6, KIAA0837, LACS5
<b>Target/Specificity</b>	This FACL6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 240-270 amino acids from the Central region of human FACL6.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	FACL6 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ACSL6 ( <a href="#">HGNC:16496</a> )
<b>Function</b>	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: <a href="#">22633490</a> , PubMed: <a href="#">24269233</a> ). Plays an important role in fatty acid metabolism in brain and the acyl- CoAs produced may be

utilized exclusively for the synthesis of the brain lipid.

#### 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 membrane; Single-pass type III membrane protein

#### Tissue Location

Expressed predominantly in erythrocyte precursors, in particular in reticulocytes, fetal blood cells derived from fetal liver, hemopoietic stem cells from cord blood, bone marrow and brain

## Background

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FACL6 is involved in activation of long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. It plays an important role in fatty acid metabolism in brain and the acyl-CoAs produced may be utilized exclusively for the synthesis of the brain lipid. FACL6 is expressed predominantly in erythrocyte precursors, in particular in reticulocytes, fetal blood cells derived from fetal liver, haemopoietic stem cells from cord blood, bone marrow, and brain. Expression is low at earlier stages of erythroid development but is very high in reticulocytes. This protein is involved in myelodysplastic syndrome (MDS) with basophilia, acute myelogenous leukemia (AML) with eosinophilia, and acute eosinophilic leukemia (AEL). It is characterized by a chromosomal translocation t(5;12)(q31;p13) that involves ETV6 and ACSL6.

## References

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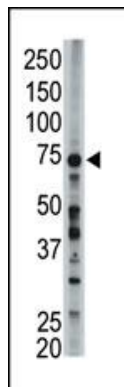
Yagasaki, F., et al., Genes Chromosomes Cancer 26(3):192-202 (1999).

Nagase, T., et al., DNA Res. 5(6):355-364 (1998).

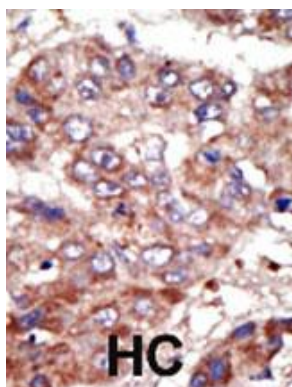
Malhotra, K.T., et al., Biochem. J. 344 Pt 1, 135-143 (1999).

## Images

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The anti-FACL6 Pab (Cat. #AP2537b) is used in Western blot to detect FACL6 in mouse liver tissue lysate.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.