


Anti-FACL4 antibody - Carboxyterminal end ab137525

★★★★★ [2 Abreviews](#) [6 References](#) [4 Images](#)

Overview

Product name	Anti-FACL4 antibody - Carboxyterminal end
Description	Rabbit polyclonal to FACL4 - Carboxyterminal end
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Pig 
Immunogen	Synthetic peptide, corresponding to a region within the C terminal amino acids 649-711 of Human FACL4 (NP_075266.1).
Positive control	Hela, NT2D1, NIH 3T3, JC, BCL1 whole cell lysates, HeLa cells, HBL435 xenograft tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab137525 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/1000.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 79 kDa.
ICC/IF	★★★★★ (1)	1/100 - 1/1000.

Target

Function

Activation of long-chain fatty acids for both synthesis of cellular lipids, and degradation via beta-oxidation. Preferentially uses arachidonate and eicosapentaenoate as substrates.

Involvement in disease

Defects in ACSL4 are the cause of mental retardation X-linked type 63 (MRX63) [MIM:300387]. Mental retardation is a mental disorder characterized by significantly sub-average general intellectual functioning associated with impairments in adaptive behavior and manifested during the developmental period. Non-syndromic mental retardation patients do not manifest other clinical signs.

Defects in ACSL4 are involved in Alport syndrome with mental retardation midface hypoplasia and elliptocytosis (ATS-MR) [MIM:300194]. A X-linked contiguous gene deletion syndrome characterized by glomerulonephritis, deafness, mental retardation, midface hypoplasia and elliptocytosis.

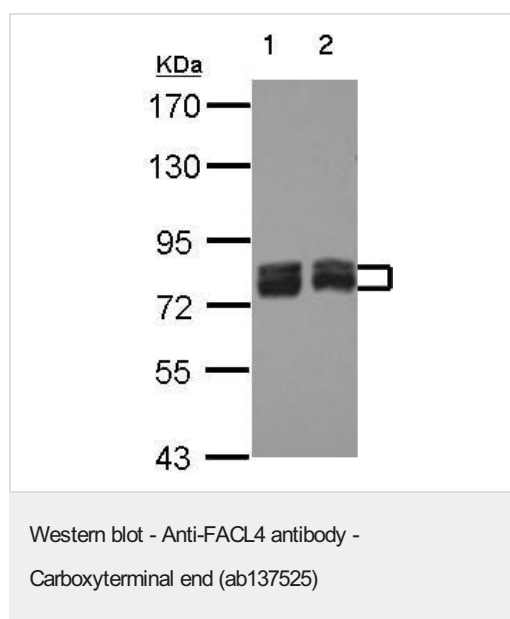
Sequence similarities

Belongs to the ATP-dependent AMP-binding enzyme family.

Cellular localization

Mitochondrion outer membrane. Peroxisome membrane. Microsome membrane. Endoplasmic reticulum membrane.

Images



All lanes : Anti-FACL4 antibody - Carboxyterminal end (ab137525) at 1/1000 dilution

Lane 1 : HeLa whole cell lysate

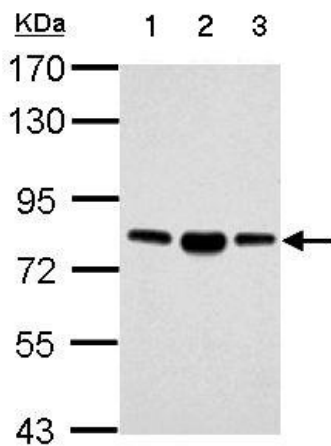
Lane 2 : NT2D1 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 79 kDa

Additional bands at: 74 kDa (possible isoform)

7.5% SDS PAGE



Western blot - Anti-FACL4 antibody -
Carboxyterminal end (ab137525)

All lanes : Anti-FACL4 antibody - Carboxyterminal end (ab137525)
at 1/5000 dilution

Lane 1 : NIH 3T3 whole cell lysate

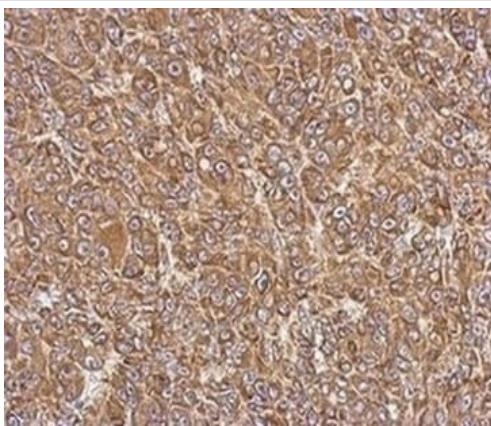
Lane 2 : JC whole cell lysate

Lane 3 : BCL1 whole cell lysate

Lysates/proteins at 30 µg per lane.

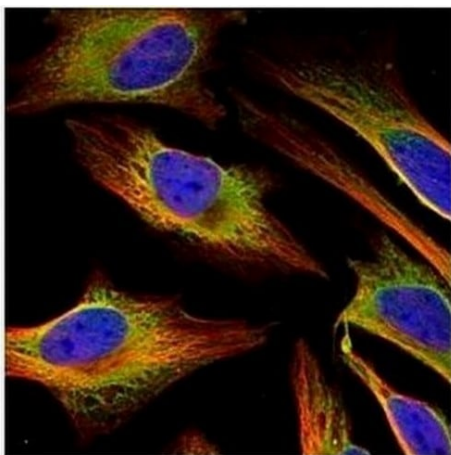
Predicted band size: 79 kDa

7.5% SDS PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-FACL4 antibody -
Carboxyterminal end (ab137525)

Immunohistochemical analysis of paraffin embedded HBL435
xenograft tissue labelling FACL4 with ab137525 at 1/500.



Immunocytochemistry/ Immunofluorescence - Anti-
FACL4 antibody - Carboxyterminal end (ab137525)

Immunofluorescence analysis of methanol fixed HeLa cells labelling
FACL4 with ab137525 at 1/500 (Green). Alpha tubulin filaments
were labelled using a suitable antibody(Red).

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