

Datasheet for ABIN389113 anti-ACSL4 antibody (AA 236-267)

2	Images	11	Public
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Overview

Quantity:	400 µL
Target:	ACSL4
Binding Specificity:	AA 236-267
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ACSL4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Immunogen:	This ACSL4 (FACL4) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 236-267 amino acids from the Central region of human ACSL4 (FACL4).
Clone:	RB04697
lsotype:	lg Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	ACSL4
Alternative Name:	ACSL4 (FACL4) (ACSL4 Products)

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Target I	Details
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Background:	Long chain acyl-CoA synthetase (LACS), or long chain fatty acid-CoA ligase (FACL), converts
	free long chain fatty acids into fatty acyl-CoA esters, key intermediates in the synthesis of
	complex lipids. The FACL4 gene encodes a form of LACS and is expressed in several tissues,
	including brain. FACL4 cDNA from brain encodes a gene product that shows preference for
	arachidonic acid as a substrate when expressed in mammalian cells.1 The sequence of the
	predicted 670-amino acid human protein is 97 % identical to that of rat ACS4. FACL4 is highly
	expressed in adult human brain, especially in the cerebellum and hippocampus, similar to the
	mouse.2 A strong cytoplasmic staining was found in the Purkinje and granular cells of the
	cerebellum and the pyramidal layer of hippocampus, indicating that FACL4 is specifically
	expressed in neurons and not in glial cells. Two patients with Alport syndrome, elliptocytosis,
	and mental retardation carried a large deletion of the COL4A5 region that included FACL4.3 The
	absence of FACL4 might play a role in the development of mental retardation or other signs
	associated with Alport syndrome. Two point mutations, 1 missense and 1 splice site change,
	were reported in the FACL4 gene in 2 families with nonspecific mental retardation.2 Analysis of
	enzymatic activity in lymphoblastoid cell lines of affected individuals revealed low levels
	compared with normal cells, indicating that both mutations are null mutations.

Molecular Weight:	79188
Gene ID:	2182
NCBI Accession:	NP_004449, NP_075266
UniProt:	O60488

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:25
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

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nsulin resistance." in:
bMed).
Chan, Di Paolo, Mehler,
omez: "Increased localization
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Immunohistochemistry (Paraffin-embedded Sections)

Image 1. B staining hFACL4 in human human hepatocarcinoma sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3 % BSA for 0. 5 hour at room temperature, antigen retrieval was by heat mediation with a citrate buffer (pH 6). Samples were incubated with primary antibody (1/25) for 1 hours at 37 °C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

Western Blotting

Image 2. Anti-FACL4 Antibody at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 79 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

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