

ACSL4 rabbit monoclonal antibody

Catalog # H00002182-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human ACSL4 peptide using ARM Technology.
Immunogen	A synthetic peptide of human ACSL4 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human ACSL4 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab) ₂ , IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — ACSL4

Entrez GeneID	2182
GeneBank Accession#	ACSL4
Gene Name	ACSL4
Gene Alias	ACS4, FACL4, LACS4, MRX63, MRX68
Gene Description	acyl-CoA synthetase long-chain family member 4
Omim ID	300157 300387
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is an isozyme of the long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. This isozyme preferentially utilizes arachidonate as substrate. The absence of this enzyme may contribute to the mental retardation or Alport syndrome. Alternative splicing of this gene generates 2 transcript variants. [provided by RefSeq]
Other Designations	OTTHUMP00000023846 acyl-CoA synthetase 4 fatty-acid-Coenzyme A ligase, long-chain 4 lignoceroyl-CoA synthase long-chain fatty-acid-Coenzyme A ligase 4

Pathway

- [Adipocytokine signaling pathway](#)
- [Fatty acid metabolism](#)
- [Metabolic pathways](#)
- [PPAR signaling pathway](#)

Disease

- [Depressive Disorder](#)
- [Erythema](#)

- [Mental Retardation](#)
- [Metabolic Syndrome X](#)
- [Schizophrenia](#)