

DATASHEET

ACSL4 Rabbit Polyclonal Antibody

CAT. NO. APA14577

KEY FEATURES

Target	ACSL4	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

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 . Preferentially activates arachidonate and eicosapentaenoate as substrates . 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 . Modulates prostaglandin E2 secretion . Acts as an activator of ferroptosis by activating polyunsaturated fatty acids, especially arachidonate and adrenate, to their active form, generating the primary lipid-peroxidation substrates that contribute to ferroptosis .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
----	----------------

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

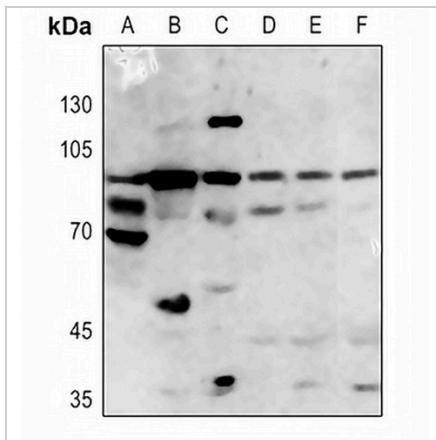
Description	Rabbit polyclonal antibody to ACSL4
Specificity	Recognizes endogenous levels of ACSL4 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human ACSL4
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 79 kD; Observed: 79; 74 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	ACS4; FAFL4; LACS4; Long-chain-fatty-acid--CoA ligase 4; Long-chain acyl-CoA synthetase 4; LACS 4
Gene Symbol	ACSL4
Entrez Gene	2182(Human); 50790(Mouse)
SwissProt	O60488(Human); Q9QUJ7(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET**ACSL4 Rabbit Polyclonal Antibody**

CAT. NO. APA14577

DATA

Western blot analysis of ACSL4 expression in HEK293T (A), H1688 (B), HCT116 (C), mouse brain (D), mouse kidney (E), rat kidney (F) whole cell lysates. (Predicted band size: 79 kD; Observed band size: 79; 74 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.