10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Acsl4 Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI13076

Product Information

Application	WB
Primary Accession	Q9QUJ7
Other Accession	NM_207625, NP_997508
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	79077

Additional Information

Gene ID	50790
Alias Symbol	9430020A05Rik, ACS4, AU018108, Facl4, Lacs4
Other Names	Long-chain-fatty-acid--CoA ligase 4, 6.2.1.3, Long-chain acyl-CoA synthetase 4, LACS 4, mACS4, Acsl4, Acs4, Facl4
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Acsl4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Acsl4 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

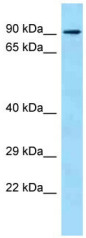
Name	Acsl4
Synonyms	Acs4, Facl4
Function	Catalyzes the conversion of long-chain fatty acids to their active form acyl-CoA for both synthesis of cellular lipids, and degradation via beta-oxidation. Preferentially activates arachidonate and eicosapentaenoate as substrates. Preferentially activates 8,9-EET > 14,15-EET > 5,6-EET > 11,12-EET (By similarity). Modulates glucose- stimulated insulin secretion by regulating the levels of unesterified EETs (By similarity). 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 (By similarity).
Cellular Location	Mitochondrion outer membrane {ECO:0000250|UniProtKB:O60488}; Single-pass type III membrane protein {ECO:0000250|UniProtKB:O60488}. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:O60488}; Single-pass type III membrane protein {ECO:0000250|UniProtKB:O60488}. Cell membrane {ECO:0000250|UniProtKB:O60488}; Single-pass type III membrane protein {ECO:0000250|UniProtKB:O60488}
Tissue Location	Abundant in steroidogenic tissues, also found in the kidney, brain and liver.

References

Cho Y.-Y.,et al.Biochem. Biophys. Res. Commun. 274:741-745(2000).
Vitelli F.,et al.Cytogenet. Cell Genet. 88:259-263(2000).
Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).

Images



Host: Rabbit
Target Name: Acsl4
Sample Tissue: Mouse Thymus lysates
Antibody Dilution: 1.0μg/ml

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