

KD-Validated Anti-Acyl-CoA dehydrogenase short chain Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2342

Product Information

Application	WB, ICC
Primary Accession	P16219
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB1365
Calculated MW	44297
Gene Name	ACADS
Aliases	ACADS; Acyl-CoA Dehydrogenase Short Chain; SCAD; ACAD3; Short-Chain Specific Acyl-CoA Dehydrogenase, Mitochondrial; Acyl-Coenzyme A Dehydrogenase, C-2 To C-3 Short Chain; Butyryl-CoA Dehydrogenase; Mitochondrial Short-Chain Specific Acyl-CoA Dehydrogenase; Acyl-CoA Dehydrogenase, C-2 To C-3 Short Chain; Epididymis Secretory Sperm Binding Protein; Unsaturated Acyl-CoA Reductase; EC 1.3.99.2; EC 1.3.8.1; EC 1.3.99
Immunogen	A synthesized peptide derived from human ACADS / SCAD

Additional Information

Gene ID	35
Other Names	Short-chain specific acyl-CoA dehydrogenase, mitochondrial, SCAD, 1.3.8.1, Butyryl-CoA dehydrogenase, ACADS

Protein Information

Name	ACADS
Function	Short-chain specific acyl-CoA dehydrogenase is one of the acyl-CoA dehydrogenases that catalyze the first step of mitochondrial fatty acid beta-oxidation, an aerobic process breaking down fatty acids into acetyl-CoA and allowing the production of energy from fats (By similarity). The first step of fatty acid beta-oxidation consists in the removal of one hydrogen from C-2 and C-3 of the straight-chain fatty acyl-CoA thioester, resulting in the formation of trans-2-enoyl- CoA (By similarity). Among the different mitochondrial acyl-CoA dehydrogenases, short-chain specific acyl-CoA dehydrogenase acts specifically on acyl-CoAs with saturated 4 to 6 carbons long primary chains (PubMed: 11134486 , PubMed: 21237683).
Cellular Location	Mitochondrion matrix {ECO:0000250 UniProtKB:Q3ZBF6}

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