ECHS1 monoclonal antibody (M09), clone 3D8

Catalog # H00001892-M09 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant ECHS1.
Immunogen	ECHS1 (AAH08906.1, 13 a.a. ~ 290 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	GPLRPPVRCPAWRPFASGANFEYIIAEKRGKNNTVGLIQLNRPKALNALCDGLIDELNQALKIFEED PAVGAIVLTGGDKAFAAGADIKEMQNLSFQDCYSSKFLKHWDHLTQVKKPVIAAVNGYAFGGGC ELAMMCDIIYAGEKAQFAQPEILIGTIPGAGGTQRLTRAVGKSLAMEMVLTGDRISAQDAKQAGLVS KICPVETLVEEAIQCAEKIASNSKIVVAMAKESVNAAFEMTLTEGSKLEKKLFYSTFATDDRKEGM TAFVEKRKANFKDQ
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (89); Rat (88)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- ELISA

Gene Info — ECHS1

Entrez GeneID	1892

GeneBank Accession#	BC008906
Protein Accession#	AAH08906.1
Gene Name	ECHS1
Gene Alias	SCEH
Gene Description	enoyl Coenzyme A hydratase, short chain, 1, mitochondrial
Omim ID	602292
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene functions in the second step of the mitochondrial fatty acid beta-oxidation pathway. It catalyzes the hydration of 2-trans-enoyl-coenzyme A (CoA) intermediates to L-3-hydroxyacyl-CoAs. The gene product is a member of the hydratase/isomerase superfamily. It l ocalizes to the mitochondrial matrix. Transcript variants utilizing alternative transcription initiation s ites have been described in the literature. [provided by RefSeq
Other Designations	OTTHUMP00000020811|mitochondrial short-chain enoyl-coenzyme A hydratase 1

Pathway

- Benzoate degradation via CoA ligation
- beta-Alanine metabolism
- Butanoate metabolism
- Caprolactam degradation
- Fatty acid elongation in mitochondria
- Fatty acid metabolism
- Limonene and pinene degradation
- Lysine degradation
- Metabolic pathways
- Propanoate metabolism
- Tryptophan metabolism
- Valine

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema