GCDH mouse monoclonal antibody (hybridoma)

Catalog # H00002639-M Size Up to 5 Clones

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant GCDH.
Immunogen	GCDH (NP_000150.1, 1 a.a. ~ 438 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MALRGVSVRLLSRGPGLHVLRTWVSSAAQTEKGGRTQSQLAKSSRPEFDWQDPLVLEEQLTTDEILIRDTFRTYCQERLMPRILLANRNEVFHREIISEMGELGVLGPTIKGYGCAGVSSVAYGLLARELERVDSGYRSAMSVQSSLVMHPIYAYGSEEQRQKYLPQLAKGELLGCFGLTEPNSGSDPSSMETRAHYNSSNKSYTLNGTKTWITNSPMADLFVVWARCEDGCIRGFLLEKGMRGLSAPRIQGKFSLRASATGMIIMDGVEVPEENVLPGASSLGGPFGCLNNARYGIAWGVLGASEFCLHTARQYALDRMQFGVPLARNQLIQKKLADMLTEITLGLHACLQLGRLKDQDKAAPEMVSLLKRNNCGKALDIARQARDMLGGNGISDEYHVIRHAMNLEAVNTYEGTHDIHALILGRAITGIQAFTASK
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody reactivity and specificity confirmed by ELISA and Western Blot.
Deliverables	Up to 5 positive hybridoma clones will be delivered to customer in the cryotube format.
Note	Customer should check the viability of the hybridomas within one month from the date of receipt. Fee-for-service of long term hybridoma storage can be performed upon customer's request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- ELISA

Gene Info — GCDH

Entrez GeneID	2639
GeneBank Accession#	NM_000159.2
Protein Accession#	NP_000150.1
Gene Name	GCDH
Gene Alias	ACAD5, GCD
Gene Description	glutaryl-Coenzyme A dehydrogenase
Omim ID	231670 608801
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the acyl-CoA dehydrogenase family. It catalyzes the oxidative decarboxylation of glutaryl-CoA to crotonyl-CoA and CO(2) in the degradative pathway of L-lysine, L-hydroxylysine, and L-tryptophan metabolism. It uses electron transfer flavoprotein as its electron acceptor. The enzyme exists in the mitochondrial matrix as a homotetramer of 45-kD s ubunits. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq
Other Designations	glutaryl-CoA dehydrogenase, mitochondrial

Pathway

- Benzoate degradation via CoA ligation
- Fatty acid metabolism
- Lysine degradation
- Metabolic pathways
- Tryptophan metabolism

Disease

- Cardiovascular Diseases
- Diabetes Mellitus

- Edema