

HADHSC Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant HADHSC. Catalog # AT2310a

Specification

HADHSC Antibody (monoclonal) (M02) - Product Information

Application WB **Primary Accession** 016836 Other Accession NM 005327 Reactivity Human Host mouse Clonality **Monoclonal** Isotype IgG3 Kappa Calculated MW 34294

HADHSC Antibody (monoclonal) (M02) - Additional Information

Gene ID 3033

Other Names

Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial, HCDH, Medium and short-chain L-3-hydroxyacyl-coenzyme A dehydrogenase, Short-chain 3-hydroxyacyl-CoA dehydrogenase, HADH, HAD, HADHSC, SCHAD

Target/Specificity

HADHSC (NP_005318, 205 a.a. \sim 314 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2.

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

HADHSC Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

HADHSC Antibody (monoclonal) (M02) - Protocols

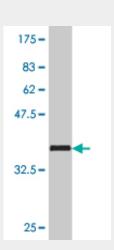
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

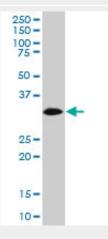


- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HADHSC Antibody (monoclonal) (M02) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa).



HADHSC monoclonal antibody (M02), clone 3C9. Western Blot analysis of HADHSC expression in HepG2 ((Cat # AT2310a)

HADHSC Antibody (monoclonal) (M02) - Background

This gene is a member of the 3-hydroxyacyl-CoA dehydrogenase gene family. The encoded protein functions in the mitochondrial matrix to catalyze the oxidation of straight-chain 3-hydroxyacyl-CoAs as part of the beta-oxidation pathway. Its enzymatic activity is highest with medium-chain-length fatty acids. Mutations in this gene cause one form of familial hyperinsulinemic hypoglycemia. The human genome contains a related pseudogene of this gene on chromosome 15.

HADHSC Antibody (monoclonal) (M02) - References

A systematic gene-based screen of chr4q22-q32 identifies association of a novel susceptibility gene, DKK2, with the quantitative trait of alcohol dependence symptom counts. Kalsi G, et al. Hum Mol Genet, 2010 Jun 15. PMID 20332099.Identification of a diffuse form of hyperinsulinemic





Tel: 858.875.1900 Fax: 858.875.1999

hypoglycemia by 18-fluoro-L-3,4 dihydroxyphenylalanine positron emission tomography/CT in a patient carrying a novel mutation of the HADH gene. Di Candia S, et al. Eur J Endocrinol, 2009 Jun. PMID 19318379. The HADHSC gene encoding short-chain L-3-hydroxyacyl-CoA dehydrogenase (SCHAD) and type 2 diabetes susceptibility: the DAMAGE study, van Hove EC, et al. Diabetes, 2006 Nov. PMID 17065362. Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.3-Hydroxyacyl-CoA dehydrogenase and short chain 3-hydroxyacyl-CoA dehydrogenase in human health and disease. Yang SY, et al. FEBS J, 2005 Oct. PMID 16176262.