abcam

Product datasheet

Anti-GCDH/GCD antibody [3E9BA3BF5] ab112998

2 Images

Overview

Product name Anti-GCDH/GCD antibody [3E9BA3BF5]

Description Mouse monoclonal [3E9BA3BF5] to GCDH/GCD

Host species Mouse

Tested applications Suitable for: ICC/IF, Flow Cyt

Species reactivity Reacts with: Human

Immunogen Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.

Positive control Fibroblast, HeLa, HepG2, and Rat Cardiomyocyte cells.

General notes

This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or

conjugation for your experiments, please contact orders@abcam.com.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Product was previously marketed under the MitoSciences sub-brand.

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

Storage buffer pH: 7.5

Preservative: 0.02% Sodium azide

Constituent: 99.98% HEPES buffered saline

Purity Proprietary Purification

Purification notes ab112998 was produced in vitro using hybridomas grown in serum-free medium, and then

purified by biochemical fractionation. Monoclonal purity was near homogeneity as judged by

SDS-PAGE (>95%).

Clonality Monoclonal

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Clone number 3E9BA3BF5

Light chain type lgG1 kappa

Applications

The Abpromise guarantee

Our <u>Abpromise guarantee</u> covers the use of ab112998 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 µg/ml.
Flow Cyt		Use a concentration of 1 µg/ml. 0.1% Triton X-100 permeabilization recommended. ab170190 - Mouse monoclonal lgG1, is suitable for use as an isotype control with this antibody.

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Function 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. Isoform Short is inactive.

Tissue specificity Isoform 1 and isoform 2 are expressed in fibroblasts and liver.

Pathway Amino-acid metabolism; lysine degradation.

Amino-acid metabolism; tryptophan metabolism.

Involvement in disease Defects in GCDH are the cause of glutaric aciduria type 1 (GA1) [MIM:231670]. GA1 is an

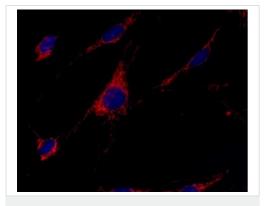
autosomal recessive metabolic disorder characterized by progressive dystonia and athetosis due

to gliosis and neuronal loss in the basal ganglia.

Sequence similaritiesBelongs to the acyl-CoA dehydrogenase family.

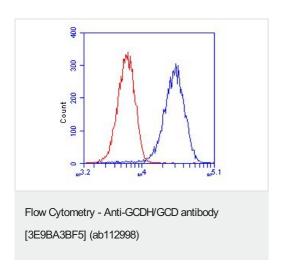
Cellular localization Mitochondrion matrix.

Images



Immunocytochemistry/ Immunofluorescence - Anti-GCDH/GCD antibody [3E9BA3BF5] (ab112998)

ab112998 at 1 μ g/ml staining GCDH/GCD in fibroblast cells by immunocytochemistry (4% paraformaldehyde fixed and 0.1% Triton X-100 permeabilized) followed by Alexa Fluor® 594 goat antimouse lgG (H+L) used at a 1/1000 dilution for 1 hour (red). Nuclei were stained with DAPI.



ab112998 at 1ug/ml staining GCDH/GCD in HeLa cells by Flow Cytometry (blue). Isotype control antibody (red).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- · Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

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