

Product datasheet

Anti-HADHB antibody [5C3AB7] ab110301

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Overview

Product name	Anti-HADHB antibody [5C3AB7]
Description	Mouse monoclonal [5C3AB7] to HADHB
Host species	Mouse
Tested applications	Suitable for: IP, WB, Flow Cyt, ICC
Species reactivity	Reacts with: Human
Immunogen	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
Positive control	HepG2 and HLM cell lysates; HDFn and HeLa cells.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>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.</p> <p>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</p> <p>Product was previously marketed under the MitoSciences sub-brand.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline
Purity	Immunogen affinity purified
Purification notes	ab110301 was produced in vitro using hybridomas grown in serum-free medium, and then purified by affinity purification.
Clonality	Monoclonal
Clone number	5C3AB7

Isotype	IgG1
Light chain type	kappa

Applications

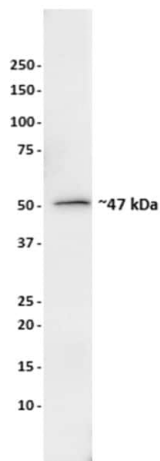
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab110301 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
WB		Use a concentration of 0.5 µg/ml. Predicted molecular weight: 51 kDa.
Flow Cyt		Use a concentration of 1 µg/ml. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC		Use a concentration of 1 µg/ml.

Target

Pathway	Lipid metabolism; fatty acid beta-oxidation.
Involvement in disease	Defects in HADHB are a cause of trifunctional protein deficiency (TFP deficiency) [MIM:609015]. The clinical manifestations are very variable and include hypoglycemia, cardiomyopathy and sudden death. Phenotypes with mainly hepatic and neuromyopathic involvement can also be distinguished. Biochemically, TFP deficiency is defined by the loss of all three enzyme activities of the TFP complex.
Sequence similarities	Belongs to the thiolase family.
Cellular localization	Mitochondrion.

Images



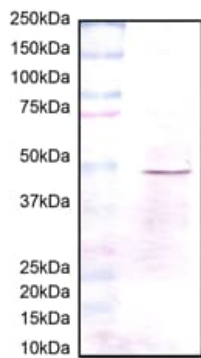
Western blot - Anti-HADHB antibody [5C3AB7]
(ab110301)

Anti-HADHB antibody [5C3AB7] (ab110301) at 0.5 $\mu\text{g/ml}$ (20 μg HepG2 cell lysate)

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 51 kDa

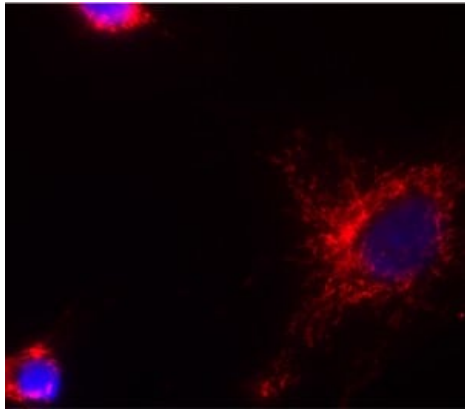


Western blot - Anti-HADHB antibody [5C3AB7]
(ab110301)

Anti-HADHB antibody [5C3AB7] (ab110301) at 0.5 $\mu\text{g/ml}$ + HepG2 cell lysate

Predicted band size: 51 kDa

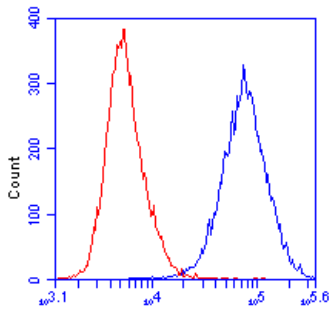
As a Western blot antibody, ab110301 works with HepG2 (human) cells.



Immunocytochemistry - Anti-HADHB antibody
[5C3AB7] (ab110301)

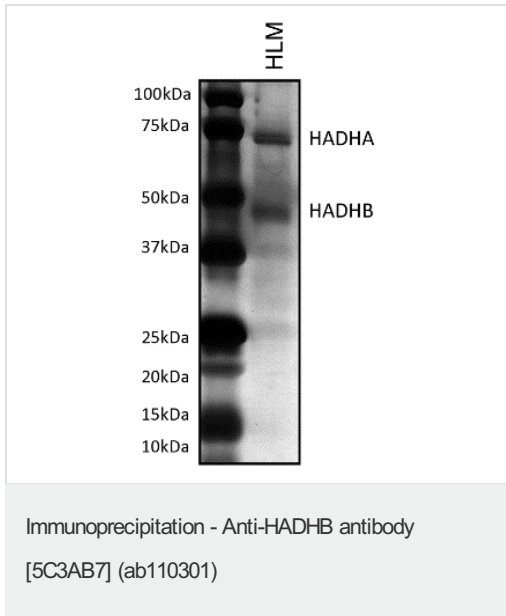
Immunocytochemistry analysis using ab110301 at 1 μ g/ml staining HADHB in HDFn cells (paraformaldehyde fixed and Triton X-100 permeabilized).

The secondary antibody was (red) Alexa Fluor[®] 594 goat anti-mouse IgG (H+L) used at a 1/1000 dilution. DAPI was used to stain the cell nuclei (blue).



Flow Cytometry - Anti-HADHB antibody [5C3AB7]
(ab110301)

Flow cytometric analysis using ab110301 at 1 μ g/ml staining HADHB in HeLa cells (blue). Isotype control antibody (red).



As an IP antibody, MS733 works with human samples.

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