

Product datasheet

Anti-HADH antibody ab154088

★★★★★ [3 Abreviews](#) [12 References](#) [6 Images](#)

Overview

Product name	Anti-HADH antibody
Description	Rabbit polyclonal to HADH
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment corresponding to Human HADH aa 92-314. Database link: Q16836
Positive control	WB: Mouse liver whole cell lysates. HEK-293T, A431, HeLa, HepG2 whole cell lysate. Rat heart and liver extract. IHC-P: Human colon cancer tissue; ICC/IF: HeLa cells.
General notes	<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>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab154088 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
WB	★★★★★ (1)	1/500 - 1/3000. Predicted molecular weight: 34 kDa.
IHC-P	★★★★★ (1)	1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/1000.

Target

Function

Plays an essential role in the mitochondrial beta-oxidation of short chain fatty acids. Exerts it highest activity toward 3-hydroxybutyryl-CoA.

Tissue specificity

Expressed in liver, kidney, pancreas, heart and skeletal muscle.

Pathway

Lipid metabolism; fatty acid beta-oxidation.

Involvement in disease

Defects in HADH are the cause of 3-alpha-hydroxyacyl-CoA dehydrogenase deficiency (HADH deficiency) [MIM:231530]. HADH deficiency is a metabolic disorder with various clinical presentations including hypoglycemia, hepatoencephalopathy, myopathy or cardiomyopathy, and in some cases sudden death.

Defects in HADH are the cause of familial hyperinsulinemic hypoglycemia type 4 (HHF4) [MIM:609975]; also known as persistent hyperinsulinemic hypoglycemia of infancy (PHHI) or congenital hyperinsulinism. HHF is the most common cause of persistent hypoglycemia in infancy and is due to defective negative feedback regulation of insulin secretion by low glucose levels. It causes nesidioblastosis, a diffuse abnormality of the pancreas in which there is extensive, often disorganized formation of new islets. Unless early and aggressive intervention is undertaken, brain damage from recurrent episodes of hypoglycemia may occur. HHF4 should be easily recognizable by analysis of acylcarnitine species and that this disorder responds well to treatment with diazoxide. It provides the first 'experiment of nature' that links impaired fatty acid oxidation to hyperinsulinism and that provides support for the concept that a lipid signaling pathway is implicated in the control of insulin secretion.

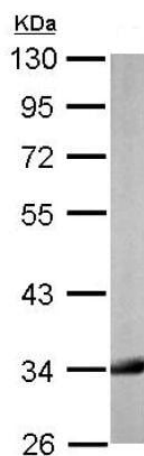
Sequence similarities

Belongs to the 3-hydroxyacyl-CoA dehydrogenase family.

Cellular localization

Mitochondrion matrix.

Images

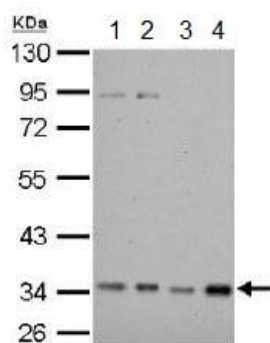


Western blot - Anti-HADH antibody (ab154088)

Anti-HADH antibody (ab154088) at 1/1000 dilution + mouse liver whole cell lysate at 50 µg

Predicted band size: 34 kDa

10% SDS PAGE



Western blot - Anti-HADH antibody (ab154088)

All lanes : Anti-HADH antibody (ab154088) at 1/1000 dilution

Lane 1 : HEK-293T whole cell lysate

Lane 2 : A431 whole cell lysate/extract

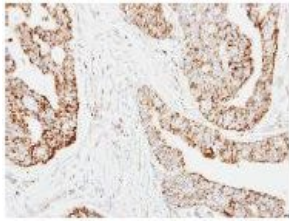
Lane 3 : HeLa whole cell lysate/extract

Lane 4 : HepG2 whole cell lysate/extract

Lysates/proteins at 30 µg per lane.

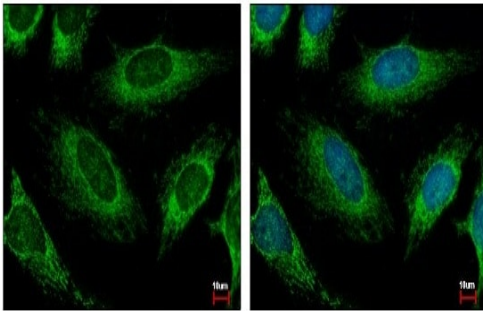
Predicted band size: 34 kDa

10% SDS-PAGE



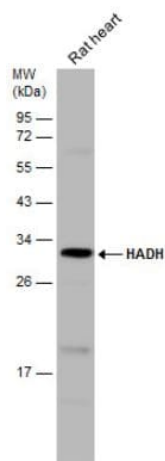
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HADH antibody (ab154088)

Immunohistochemical analysis of paraffin-embedded Human colon cancer tissue labeling HADH with ab154088 at 1/250 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-HADH antibody (ab154088)

Immunofluorescence analysis of HeLa cells (fixed with 2% paraformaldehyde/culture medium at 37 °C for 30 min) labeling HADH with ab154088 at 1/500 dilution (green). The image in the right panel is costained with Hoechst 33342 (blue).

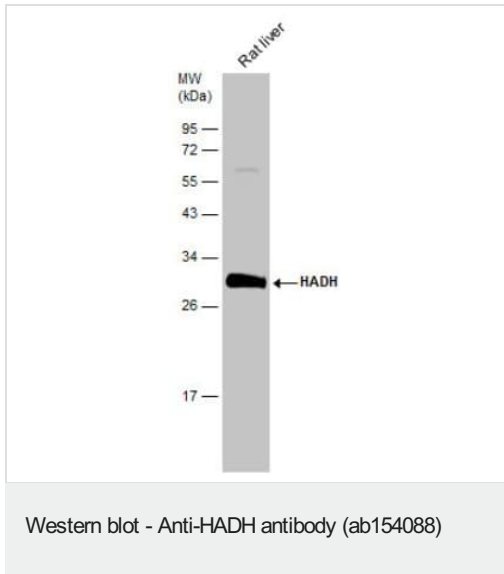


Western blot - Anti-HADH antibody (ab154088)

Anti-HADH antibody (ab154088) at 1/1000 dilution + Rat tissue extract at 50 μg

Predicted band size: 34 kDa

12% SDS-PAGE



Anti-HADH antibody (ab154088) at 1/1000 dilution + Rat tissue extract at 50 µg

Predicted band size: 34 kDa

12% SDS-PAGE

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

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors