

Product datasheet

Anti-HADH antibody ab154088

★★★★★ 3 Abreviews 2 References 4 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, Human |
| Immunogen | Recombinant fragment corresponding to Human HADH aa 92-314. Database link: Q16836 |
| Positive control | 293T, A431, HeLa, HepG2 and mouse liver whole cell lysates; colon cancer tissue; HeLa cells. |
| General notes | This product was previously labelled as HADHSC |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. 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 |
| Purity | Immunogen affinity purified |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

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.

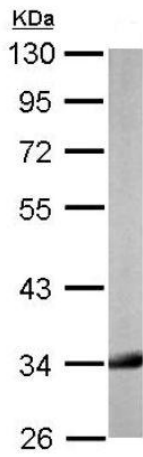
| Application | Abreviews | Notes |
|-------------|-----------|---|
| WB | ★★★★★ | 1/500 - 1/3000. Predicted molecular weight: 34 kDa. |

| Application | Abreviews | Notes |
|-------------|-----------|--|
| IHC-P | ★★★★★ | 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 | <p>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.</p> <p>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.</p> |
| Sequence similarities | Belongs to the 3-hydroxyacyl-CoA dehydrogenase family. |
| Cellular localization | Mitochondrion matrix. |

Images

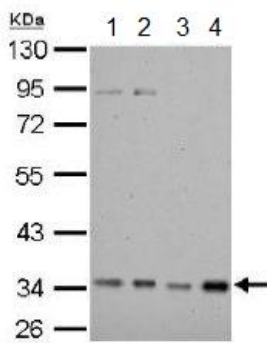


Western blot - Anti-HADH antibody (ab154088)

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 : 293T whole cell lysate/extract

Lane 2 : A431 whole cell lysate/extract

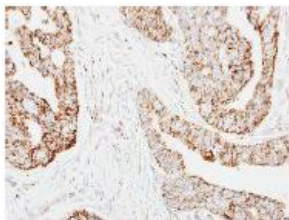
Lane 3 : HeLa whole cell lysate/extract

Lane 4 : HepG2 whole cell lysate/extract

Lysates/proteins at 30 µg per lane.

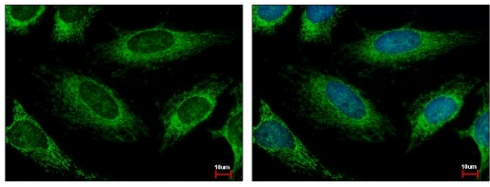
Predicted band size: 34 kDa

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).

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