

Anti-HIBCH antibody ab153826

[1 References](#) [3 Images](#)

Overview

Product name	Anti-HIBCH antibody
Description	Rabbit polyclonal to HIBCH
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment, corresponding to a region within amino acids 1-288 of Human HIBCH (UniProt: Q6NVY1).
Positive control	293T, HepG2, Molt4 whole cell lysates; A431 cells; Hepatoma tissue.
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. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.00</p> <p>Preservative: 0.01% Thimerosal (merthiolate)</p> <p>Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab153826 in the following tested applications.

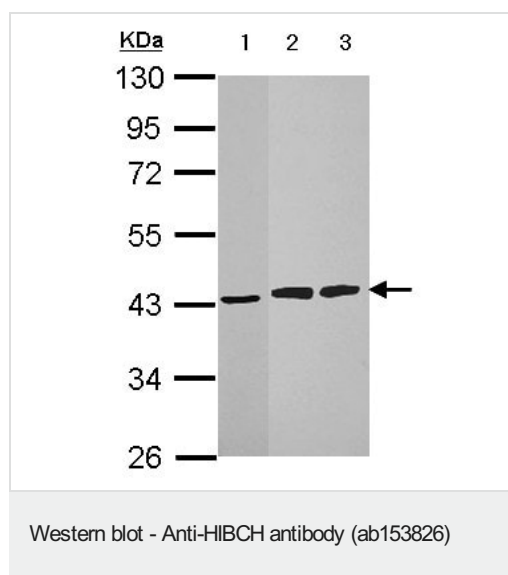
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 43 kDa.
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

Target

Function	Hydrolyzes 3-hydroxyisobutyryl-CoA (HIBYL-CoA), a saline catabolite. Has high activity toward isobutyryl-CoA. Could be an isobutyryl-CoA dehydrogenase that functions in valine catabolism. Also hydrolyzes 3-hydroxypropanoyl-CoA.
Tissue specificity	Highly expressed in liver and kidney, also detected in heart, muscle and brain (at protein level). Not detected in lung.
Pathway	Amino-acid degradation; L-valine degradation.
Involvement in disease	Defects in HIBCH are the cause of HIBCH deficiency (HIBCHD) [MIM:250620]; also known as deficiency of beta-hydroxyisobutyryl CoA deacylase or methacrylic aciduria. The enzyme defect results in accumulation of methacrylyl-CoA, a highly reactive compound, which readily undergoes addition reactions with free sulfhydryl groups. Affected individuals showed delayed development of motor skills, hypotonia, initial poor feeding, and a deterioration in neurological function during first stages of life.
Sequence similarities	Belongs to the enoyl-CoA hydratase/isomerase family.
Cellular localization	Mitochondrion.

Images



All lanes : Anti-HIBCH antibody (ab153826) at 1/1000 dilution

Lane 1 : 293T whole cell lysate

Lane 2 : HepG2 whole cell lysate

Lane 3 : Molt4 whole cell lysate

Lysates/proteins at 30 µg per lane.

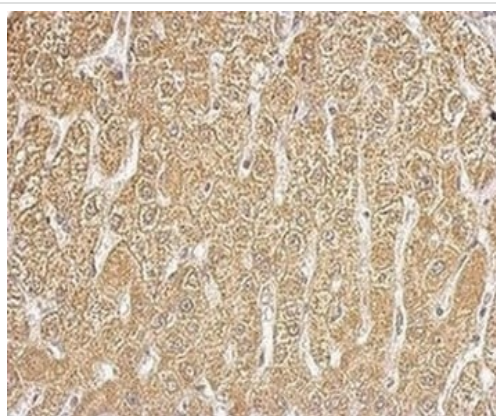
Predicted band size: 43 kDa

10% SDS PAGE



Immunofluorescence analysis of methanol fixed A431 cells labeling HIBCH with ab153826 at 1/200. Lower panel shows costaining with Hoechst 33342.

Immunocytochemistry/ Immunofluorescence - Anti-HIBCH antibody (ab153826)



Immunohistochemical analysis of paraffin embedded Human hepatoma tissue labeling HIBCH with ab153826 at 1/500.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HIBCH antibody (ab153826)

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

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