

Product Name: KD-Validated HIBCH Mouse Monoclonal Antibody**Catalog #: KVA00540**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2a
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 43.5kDa

Antigen Information

Gene Name	HIBCH HIBCH; 3-Hydroxyisobutyryl-CoA Hydrolase; 3-Hydroxyisobutyryl-Coenzyme A Hydrolase; 3-
Alternative Names	Hydroxyisobutyryl-CoA Hydrolase, Mitochondrial; HIB-CoA Hydrolase; HIBYL-CoA-H; EC 3.1.2.4; Testicular Tissue Protein Li 86; HIBYLCOAH
Gene ID	26275.0
SwissProt ID	Q6NVY1
Immunogen	Recombinant protein of human HIBCH

Background

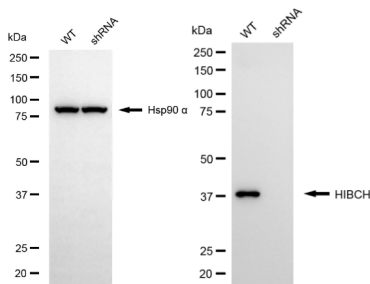
This gene encodes the enzyme responsible for hydrolysis of both HIBYL-CoA and beta-hydroxypropionyl-CoA. Mutations in this gene have been associated with 3-hydroxyisobutyryl-CoA hydrolase deficiency. Alternative splicing results in multiple

transcript variants.[provided by RefSeq, May 2010]

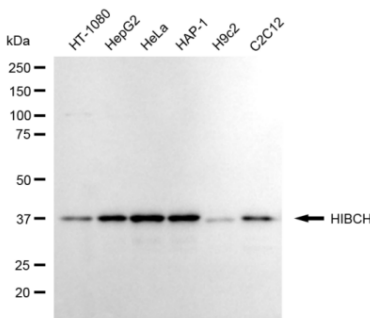
Research Area

Metabolism

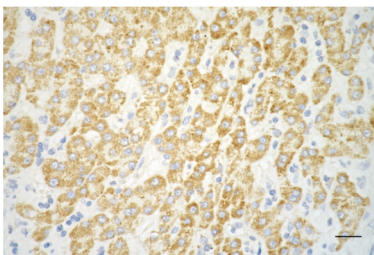
Image Data



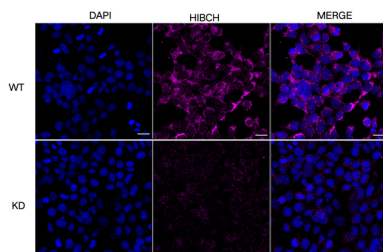
Western blotting analysis using HIBCH antibody (KVA00540). HIBCH expression in wild-type (WT) and HIBCH shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with HIBCH antibody (KVA00540, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



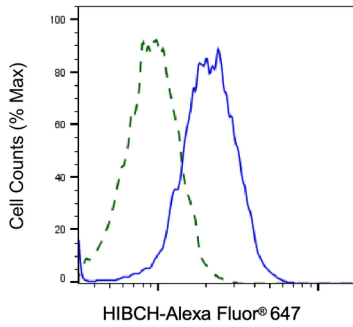
Western blotting analysis using HIBCH antibody (KVA00540). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with HIBCH antibody (KVA00540, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



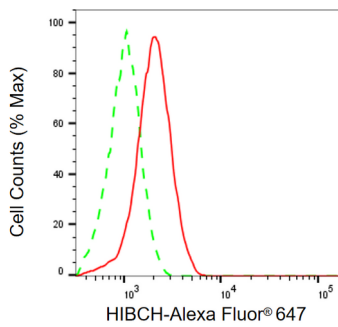
Immunohistochemistry was performed on paraffin-embedded human hepatocarcinoma using HIBCH antibody (KVA00540, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using HIBCH antibody (KVA00540, 1:1,000). Top panel: wild-type (WT); Bottom panel: HIBCH shRNA knockdown (KD). Nuclei were stained blue with DAPI; HIBCH was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Validation of HIBCH knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with HIBCH antibody (KVA00540, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of HIBCH expression in HepG2 cells using HIBCH antibody (KVA00540, 1:2,000). Green, isotype control; red, HIBCH.