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HIBCH Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7435c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q6NVY1
Reactivity	Human
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18227
Calculated MW	43482
Antigen Region	183-209

Additional Information

Gene ID	26275
Other Names	3-hydroxyisobutyryl-CoA hydrolase, mitochondrial, 3-hydroxyisobutyryl-coenzyme A hydrolase, HIB-CoA hydrolase, HIBYL-CoA-H, HIBCH
Target/Specificity	This HIBCH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 183-209 amino acids from the Central region of human HIBCH.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	HIBCH Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HIBCH
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.
Cellular Location	Mitochondrion.
Tissue Location	Highly expressed in liver and kidney, also detected in heart, muscle and brain (at protein level). Not detected in lung

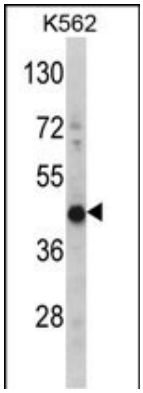
Background

HIBCH is responsible for the specific hydrolysis of HIBYL-CoA, a valine catabolite, as well as the hydrolysis of beta-hydroxypropionyl-CoA, an intermediate in a minor pathway of propionate metabolism.

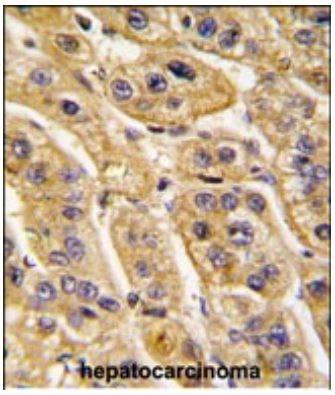
References

Hawes J.W., Jaskiewicz J., Shimomura Y.J. Biol. Chem. 271:26430-26434(1996)
Loupatty F.J., Clayton P.T.Am. J. Hum. Genet. 80:195-199(2007)

Images



Western blot analysis of HIBCH Antibody (Center) (Cat. #AP7435c) in K562 cell line lysates (35ug/lane). HIBCH (arrow) was detected using the purified Pab.(2ug/ml)



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with HIBCH antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.