For Research Use Only

HIBCH Recombinant antibody, PBS Only (Detector)

Catalog Number:83569-1-PBS Featured Product

proteintech®
Antibodies | ELISA kits | Proteins
Uni-rAb
www.ptglab.com

Basic Information

Catalog Number:
83569-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6149

GenBank Accession Number:
BC067822

GeneID (NCBI):
26275

UNIPROT ID:
Q6NVY1

Full Name:
3-hydroxyisobutyryl-Coenzyme A hydrolase

Calculated MW:
43 kDa

Observed MW:
38 kDa

Purification Method:
Protein A purification

CloneNo.:
240590A3

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

Species Specificity:
human, rat

Product Information

83569-1-PBS targets HIBCH as part of a matched antibody pair:

MP00560-3: 83569-3-PBS capture and 83569-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

Background Information

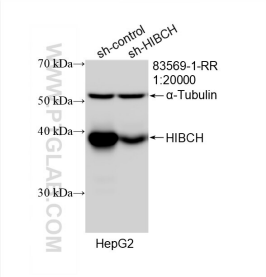
HIBCH belongs to the enoyl-CoA hydratase/isomerase family. HIBCH has two isoforms with MW 43 kDa and 38 kDa. It is highly expressed in the liver and kidney, also detected in the heart, muscle and brain (at protein level), but not detected in the lung. Hydrolyzes 3-hydroxyisobutyryl-CoA (HIBYL-CoA), a saline catabolite. Has high activity toward isobutyryl-CoA. Could be an isobutyryl-CoA dehydrogenase that functions in valine catabolism. Also hydrolyzes 3-hydroxypropanoyl-CoA (PMID: 8824301).

Storage

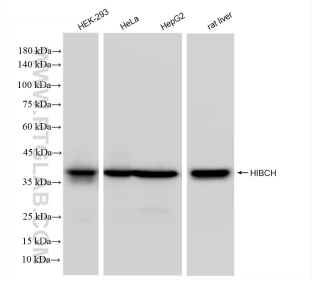
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

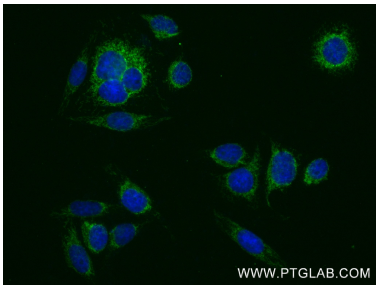
Selected Validation Data



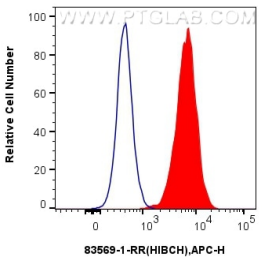
WB result of HIBCH antibody (83569-1-RR; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-HIBCH transfected HepG2 cells. This data was developed using the same antibody clone with 83569-1-PBS in a different storage buffer formulation.



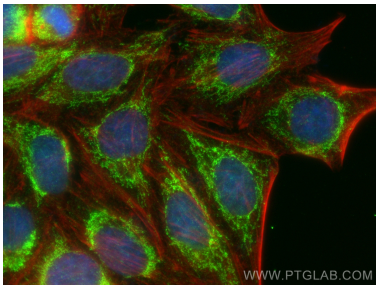
Various lysates were subjected to SDS PAGE followed by western blot with 83569-1-RR (HIBCH antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83569-1-PBS in a different storage buffer formulation.



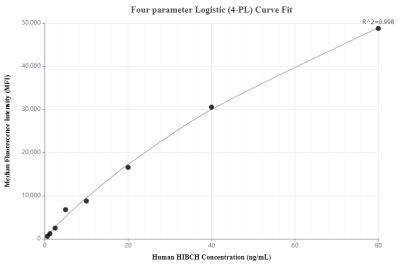
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using HIBCH antibody (83569-1-RR, Clone: 240590A3) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). This data was developed using the same antibody clone with 83569-1-PBS in a different storage buffer formulation.



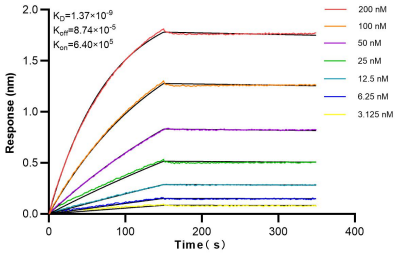
1x10^6 HepG2 cells were intracellularly stained with 0.25 ug HIBCH Recombinant antibody (83569-1-RR, Clone:240590A3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83569-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using HIBCH antibody (83569-1-RR, Clone: 240590A3) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red). This data was developed using the same antibody clone with 83569-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00560-3, HIBCH Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83569-3-PBS. Detection antibody: 83569-1-PBS. Standard: Ag6149. Range: 0.625-80 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 83569-1-RR against Human HIBCH were performed. The affinity constant is 1.37 nM.