

For Research Use Only

# CoraLite®594-conjugated HADHB Monoclonal antibody



Catalog Number:CL594-67967

## Basic Information

<b>Catalog Number:</b> CL594-67967	<b>GenBank Accession Number:</b> BC017564	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3032	<b>CloneNo.:</b> 1D12F4
<b>Source:</b> Mouse	<b>Full Name:</b> hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl- Coenzyme A thiolase/enoyl- Coenzyme A hydratase (trifunctional protein), beta subunit	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 51 kDa	<b>Excitation/Emission maxima wavelengths:</b> 593 nm / 614 nm
<b>Immunogen Catalog Number:</b> AG30315	<b>Observed MW:</b> 47 kDa	

## Applications

<b>Tested Applications:</b> FC (Intra), IF	<b>Positive Controls:</b> IF : HeLa cells,
<b>Species Specificity:</b> Human, Mouse, Rat, Pig	

## Background Information

HADHB, also named as TP- beta, Acetyl-CoA acyltransferase and Beta-ketothiolase, is a mitochondrial trifunctional enzyme subunit beta. Mitochondrial trifunctional enzyme catalyzes the last three of the four reactions of the mitochondrial beta-oxidation pathway. The mitochondrial beta-oxidation pathway is the major energy-producing process in tissues and is performed through four consecutive reactions breaking down fatty acids into acetyl-CoA. Among the enzymes involved in this pathway, the trifunctional enzyme exhibits specificity for long-chain fatty acids. Mitochondrial trifunctional enzyme is a heterotetrameric complex composed of two proteins, the trifunctional enzyme subunit alpha/HADHA carries the 2,3-enoyl-CoA hydratase and the 3-hydroxyacyl-CoA dehydrogenase activities, while the trifunctional enzyme subunit beta/HADHB described here bears the 3-ketoacyl-CoA thiolase activity. HADHB has 2 isoforms produced by alternative splicing with the MW of 49 kDa and 51 kDa.

## Storage

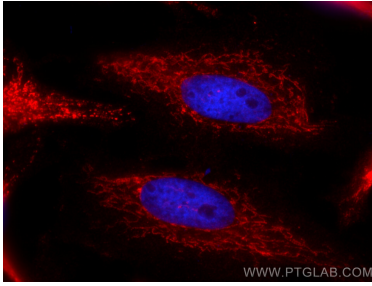
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

**\*\*\* 20ul sizes contain 0.1% BSA**

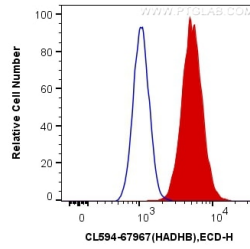
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite®594 HADHB antibody (CL594-67967, Clone: 1D12F4) at dilution of 1:200.



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human HADHB (CL594-67967, Clone:1D12F4) (red), or 0.4 ug Mouse IgG2b Isotype Control (CL594-66360-3, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).