

## HADHB Polyclonal antibody

Catalog Number: 29091-1-AP

8 Publications

## Basic Information

## Catalog Number:

29091-1-AP

## Size:

350 ug/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG30298

## GenBank Accession Number:

BC017564

## GeneID (NCBI):

3032

## UNIPROT ID:

P55084

## Full Name:

 hydroxyacyl-Coenzyme A  
 dehydrogenase/3-ketoacyl-  
 Coenzyme A thiolase/enoyl-  
 Coenzyme A hydratase (trifunctional  
 protein), beta subunit

## Calculated MW:

51 kDa

## Observed MW:

52 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:500-1:2000

## Applications

## Tested Applications:

WB, IHC, ELISA

## Cited Applications:

WB, IHC

## Species Specificity:

human, mouse, rat

## Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with  
 TE buffer pH 9.0; (\*) Alternatively, antigen  
 retrieval may be performed with citrate  
 buffer pH 6.0**

## Positive Controls:

**WB** : HepG2 cells, MCF-7 cells, mouse heart tissue,  
 mouse skeletal muscle tissue, rat heart tissue, rat liver  
 tissue

**IHC** : human stomach tissue, human colon, human  
 colon cancer tissue

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yun Li	36518312	Front Oncol	WB, IHC
Olga Gourdomichali	35205152	Biology (Basel)	WB
Beiyang Deng	39291081	J Inflamm Res	WB

## Storage

## Storage:

Store at -20°C. Stable for one year after shipment.

## Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

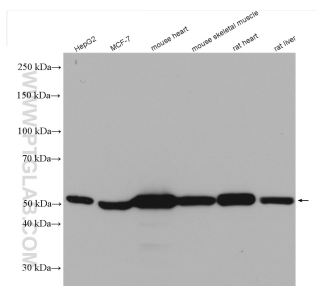
For technical support and original validation data for this product please contact:

T: 4006900926

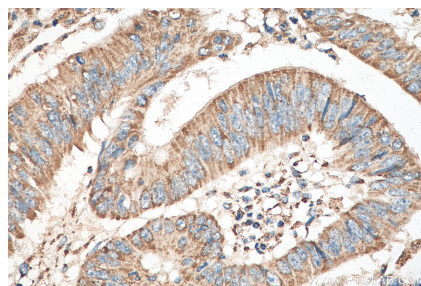
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

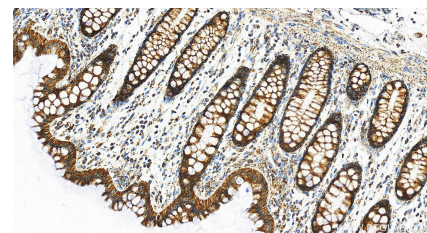
## Selected Validation Data



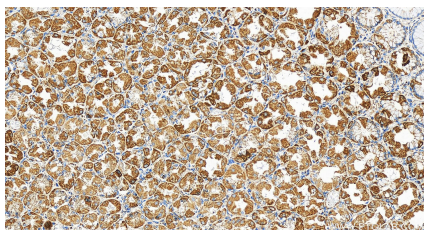
Various lysates were subjected to SDS PAGE followed by western blot with 29091-1-AP (HADHB antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 29091-1-AP (HADHB antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon slide using 29091-1-AP (HADHB antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 29091-1-AP (HADHB antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).