

For Research Use Only

# PCBD1 Polyclonal antibody, PBS Only

Catalog Number:15702-1-PBS



## Basic Information

Catalog Number:

15702-1-PBS

Concentration:

1mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8331

GenBank Accession Number:

BC006324

GeneID (NCBI):

5092

UNIPROT ID:

P61457

Full Name:

pterin-4 alpha-carbinolamine  
dehydratase/dimerization cofactor of  
hepatocyte nuclear factor 1 alpha

Calculated MW:

104 aa, 12 kDa

Observed MW:

12 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

human, mouse

## Background Information

PCBD1, also known as DCOH and PCBD, belongs to the pterin-4-alpha-carbinolamine dehydratase family. PCBD1 is a bifunctional protein that acts as an enzyme in the regeneration of cofactor tetrahydrobiopterin (BH4), crucial for the function of aromatic amino acid hydroxylases, and as a dimerization cofactor of transcription factors HNF1A and HNF1B, important in liver and pancreas development and function. PCBD1 is expressed in the developing pancreas. The calculated molecular weight of PCBD1 is 12 kDa (PMID: 24204001, 24848070).

## Storage

Storage:

Store at -80°C.

**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

Storage Buffer:

PBS only, pH7.3

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

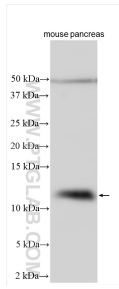
T: 4006900926

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 15702-1-AP (PCBD1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 15702-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15702-1-AP (PCBD1 antibody) at dilution of 1:100 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



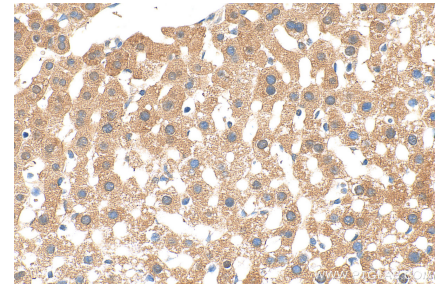
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15702-1-AP (PCBD1 antibody) at dilution of 1:100 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



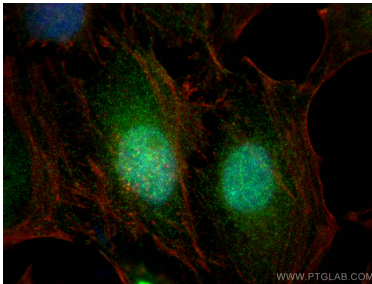
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15702-1-AP (PCBD1 antibody) at dilution of 1:100 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15702-1-AP (PCBD1 antibody) at dilution of 1:100 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 15702-1-AP (PCBD1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 15702-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PCBD1 antibody (15702-1-AP) at dilution of 1:200 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 15702-1-PBS in a different storage buffer formulation.