

PCBD1 Polyclonal antibody

Catalog Number: 15702-1-AP

Basic Information

Catalog Number:

15702-1-AP

Size:

700 ug/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

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Species Specificity:

human, mouse

**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 : mouse pancreas tissue,

IHC : human liver cancer tissue, mouse liver tissue

IF/ICC : HeLa cells,

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:

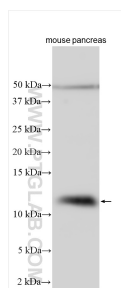
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

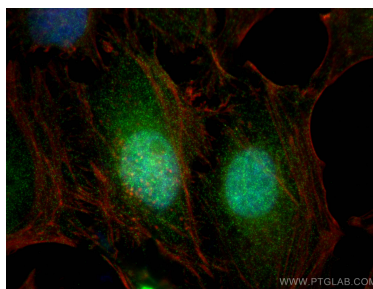
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

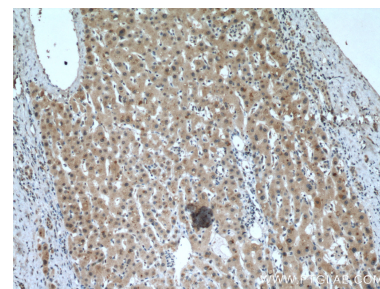
Selected Validation Data



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.



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).



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).