

For Research Use Only

PCBD1 Polyclonal antibody

Catalog Number: 15702-1-AP



Basic Information

Catalog Number: 15702-1-AP	GenBank Accession Number: BC006324	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 850 ug/ml by Nanodrop and 487 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5092	Recommended Dilutions: WB: 1:500-1:1000
Source: Rabbit	UNIPROT ID: P61457	IHC: 1:50-1:500
Isotype: IgG	Full Name: pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha	IF/ICC: 1:50-1:500
Immunogen Catalog Number: AG8331	Calculated MW: 104 aa, 12 kDa	
	Observed MW: 12 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : mouse pancreas tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : mouse liver tissue, human liver cancer tissue, mouse kidney 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

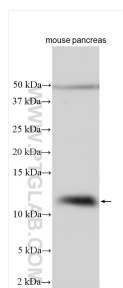
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

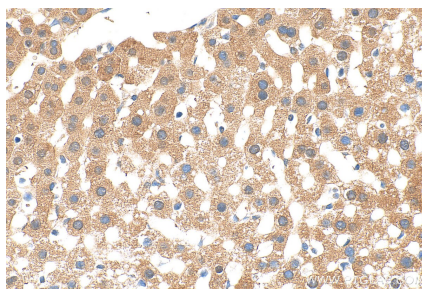
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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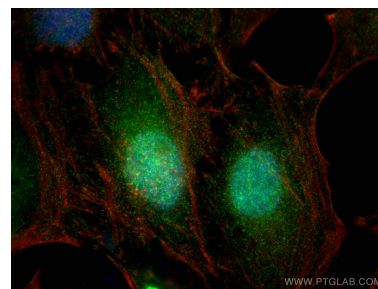
Selected Validation Data



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.



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).



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).