



## Rabbit Anti-PCBD1 antibody

SL19905R

<b>Product Name:</b>	PCBD1
<b>Chinese Name:</b>	蝶呤甲醇胺脱水酶1抗体
<b>Alias:</b>	4 alpha hydroxy tetrahydropterin dehydratase; 4-alpha-hydroxy-tetrahydropterin dehydratase; 6 pyruvoyl tetrahydropterin synthase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1); 6 pyruvoyl tetrahydropterin synthase/dimerization cofactor of hepatocyte nuclear factor 1 alpha; DCoH; Dimerization cofactor of hepatic nuclear factor 1 alpha; Dimerization cofactor of hepatocyte nuclear factor 1 alpha; Dimerization cofactor of hepatocyte nuclear factor 1-alpha; Dimerization cofactor of HNF1; Dimerizing cofactor for HNF1; PCBD 1; PCBD; PCBD1; PCD; Phenylalanine hydroxylase stimulating protein; Phenylalanine hydroxylase-stimulating protein; PHS; PHS_HUMAN; Pterin 4 alpha carbinolamine dehydratase; Pterin 4 alpha carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1); Pterin 4 alpha carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha; Pterin carbinolamine dehydratase; Pterin-4-alpha-carbinolamine dehydratase.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Cow,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	12kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PCBD1:2-50/104
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized

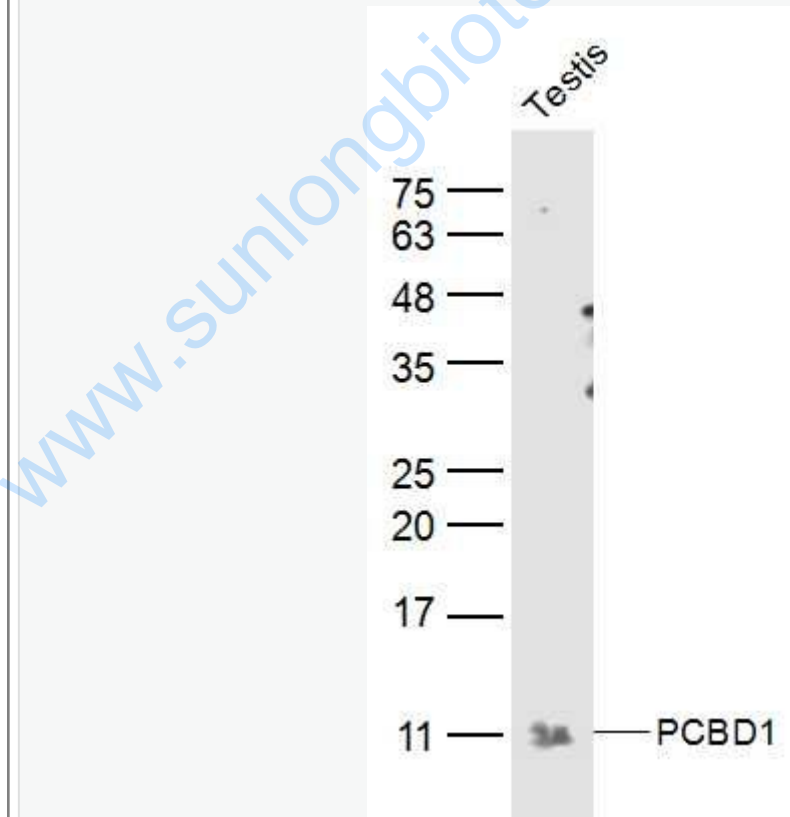
	antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>This gene encodes a member of the pterin-4-alpha-carbinolamine dehydratase family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The encoded protein functions as both a dehydratase involved in tetrahydrobiopterin biosynthesis, and as a cofactor for HNF1A-dependent transcription. A deficiency of this enzyme leads to hyperphenylalaninemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]</p> <p><b>Function:</b> Involved in tetrahydrobiopterin biosynthesis. Seems to both prevent the formation of 7-pterins and accelerate the formation of quinonoid-BH2. Coactivator for HNF1A-dependent transcription. Regulates the dimerization of homeodomain protein HNF1A and enhances its transcriptional activity.</p> <p><b>Subcellular Location:</b> Cytoplasm. Nucleus. Cytoplasmic and/or nuclear.</p> <p><b>DISEASE:</b> Defects in PCBD1 are the cause of BH4-deficient hyperphenylalaninemia type D (HPABH4D) [MIM:264070]; also known as hyperphenylalaninemia with primapterinuria. HPABH4D is characterized by the excretion of 7-substituted pterins in the urine of affected patients.</p> <p><b>Similarity:</b> Belongs to the pterin-4-alpha-carbinolamine dehydratase family.</p> <p><b>SWISS:</b> P61457</p> <p><b>Gene ID:</b> 5092</p> <p><b>Database links:</b></p> <p><a href="#">Entrez Gene: 395729</a> Chicken</p> <p><a href="#">Entrez Gene: 5092</a> Human</p> <p><a href="#">Entrez Gene: 13180</a> Mouse</p> <p><a href="#">Entrez Gene: 29700</a> Rat</p>

[Omin: 126090](#) Human  
[SwissProt: P61457](#) Human  
[SwissProt: P61458](#) Mouse  
[SwissProt: P61459](#) Rat  
[Unigene: 3192](#) Human  
[Unigene: 39473](#) Mouse  
[Unigene: 81180](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

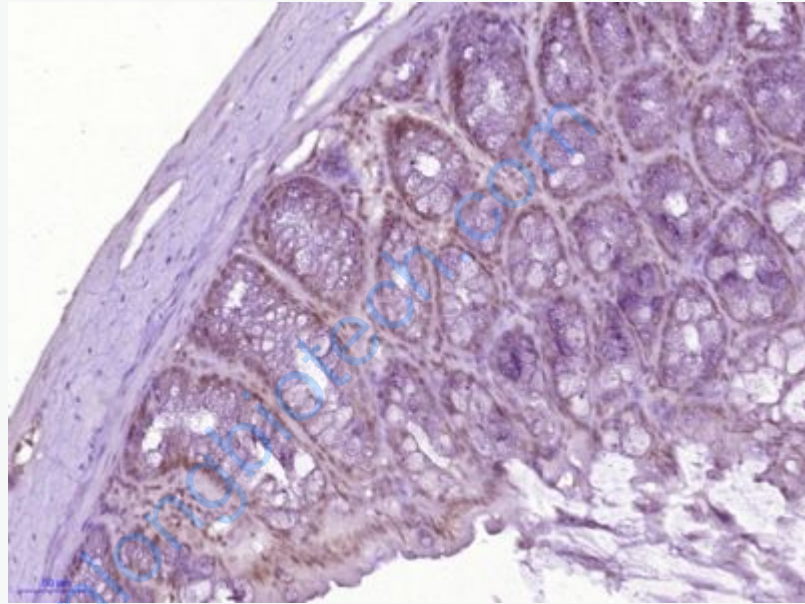
Testis (Mouse) Lysate at 40 ug

Primary: Anti-PCBD1 (SL19905R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 12 kD

Observed band size: 12 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PCBD1) Polyclonal Antibody, Unconjugated (SL19905R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.