

Rabbit PCBD1 Polyclonal Antibody | anti-PCBD1 antibody

PCBD1 Antibody (Center)

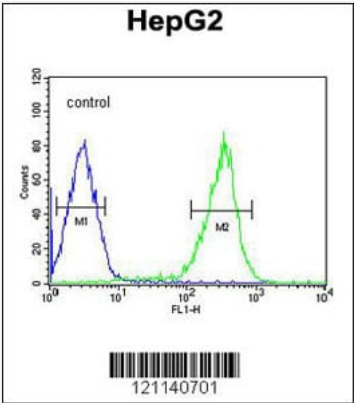
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286725	Rabbit	Human, mouse Predicted Reactivity: Bovine, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

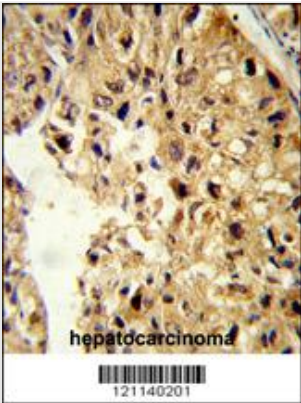
PCBD1; Polyclonal Antibody; PCBD1 Antibody (Center); Pterin-4-alpha-carbinolamine dehydratase; PHS; 4-alpha-hydroxy-tetrahydropterin dehydratase; Dimerization cofactor of hepatocyte nuclear factor 1-alpha; DCoH; Dimerization cofactor of HNF1; Phenylalanine hydroxylase-stimulating protein; Pterin carbinolamine dehydratase; PCD; DCOH; PCBD; anti-PCBD1 antibody

PRODUCT SPECIFICATIONS

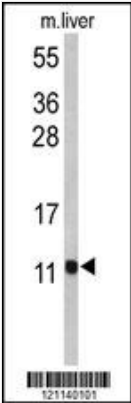
Host	Rabbit
Reactivity	Human, mouse Predicted Reactivity: Bovine, Rat
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PCBD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 11-37 amino acids from the Central region of human PCBD1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	11-37
Sequence Length	104
Applicable Applications for anti-PCBD1 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Calculated MW	12000
Function	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.
Cellular location	Cytoplasm. Nucleus. Note=Cytoplasmic and/or nuclear
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
PCBD1 Antibody (Center) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with PCBD1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of PCBD1 Antibody (Center) in mouse liver tissue lysates (35ug/lane). PCBD1 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-PCBD1 antibody	PCBD1 encodes pterin-4 alpha-carbinolamine dehydratase, an enzyme involved in phenylalanine hydroxylation. A deficiency of this enzyme leads to hyperphenylalaninemia. The enzyme regulates the homodimerization of the transcription factor hepatocyte nuclear factor 1 (HNF1).
Product Categories/Family for anti-PCBD1 antibody	Metabolism; Signal Transduction
References	Schnetz-Boutaud,N.C., et.al., Genes Brain Behav. 8 (8), 753-757 (2009) Clot,F., et.al., Brain 132 (PT 7), 1753-1763 (2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557831
NCBI GeneID	5092
NCBI Accession #	NP_000272.1
NCBI GenBank Nucleotide #	NM_000281.3
UniProt Accession #	P61457; P70519; P80095; Q9D930
NCBI Official Full Name	pterin-4-alpha-carbinolamine dehydratase isoform 1

NCBI Official Synonym Full Names	pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha
NCBI Official Symbol	PCBD1
NCBI Official Synonym Symbols	PCD; PHS; DCOH; PCBD
NCBI Protein Information	pterin-4-alpha-carbinolamine dehydratase
UniProt Protein Name	Pterin-4-alpha-carbinolamine dehydratase
UniProt Gene Name	PCBD1
UniProt Synonym Gene Names	DCOH; PCBD; PHS; DCoH; Dimerization cofactor of HNF1; PCD
UniProt Entry Name	PHS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pcbd1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/286725>