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KD-Validated Anti-PCBD1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1625

Specification

KD-Validated Anti-PCBD1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, ICC**
Primary Accession	P61457
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 12 kDa , observed , 12 kDa KDa**
Gene Name	**PCBD1**
Aliases	**Pterin-4 Alpha-Carbinolamine Dehydratase 1; PCD; DCOH; PCBD; 6-Pyruvoyl-Tetrahydropterin Synthase/Dimerization Cofactor Of Hepatocyte Nuclear Factor 1 Alpha (TCF1); Pterin-4 Alpha-Carbinolamine Dehydratase/Dimerization Cofactor Of Hepatocyte Nuclear Factor 1 Alpha; Phenylalanine Hydroxylase-Stimulating Protein; 4-Alpha-Hydroxy-Tetrahydropterin Dehydratase; Pterin-4-Alpha-Carbinolamine Dehydratase; Dimerizing Cofactor For HNF1; EC 4.2.1.96; PHS; Pterin-4 Alpha-Carbinolamine Dehydratase/Dimerization Cofactor Of Hepatocyte Nuclear Factor 1 Alpha (TCF1); Pterin-4a-Carbinolamine Dehydratase (Dimerization Cofactor Of Hepatic Nuclear Factor 1-Alpha); Dimerization Cofactor Of Hepatocyte Nuclear Factor 1-Alpha; Pterin-4-Alpha Carbinolamine Dehydratase; Pterin Carbinolamine Dehydratase; Dimerization Cofactor Of HNF1; DCoH**
Immunogen	**A synthesized peptide derived from human PCBD1**

KD-Validated Anti-PCBD1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**5092**

Other Names
Pterin-4-alpha-carbinolamine dehydratase, PHS, 4.2.1.96, 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, PCBD1, DCOH, PCBD

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KD-Validated Anti-PCBD1 Rabbit Monoclonal Antibody - Protein Information

Name PCBD1

Synonyms DCOH, PCBD

Function
Involved in tetrahydrobiopterin biosynthesis (By similarity). Seems to both prevent the formation of 7-pterins and accelerate the formation of quinonoid-BH2. Coactivator for HNF1A-dependent transcription (By similarity). Regulates the dimerization of homeodomain protein HNF1A and enhances its transcriptional activity (By similarity). Also acts as a coactivator for HNF1B-dependent transcription (PubMed:24204001).

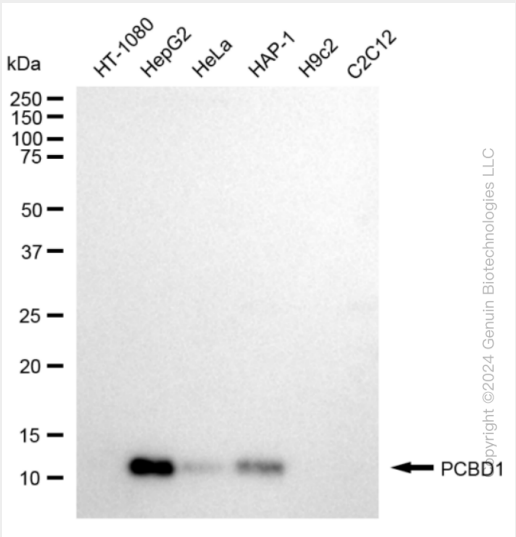
Cellular Location
Cytoplasm. Nucleus. Note=Recruited to the nucleus through the interaction with HNF1B.

KD-Validated Anti-PCBD1 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-PCBD1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-PCBD1 antibody (Cat#AGI1625). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-PCBD1 antibody (Cat#AGI1625, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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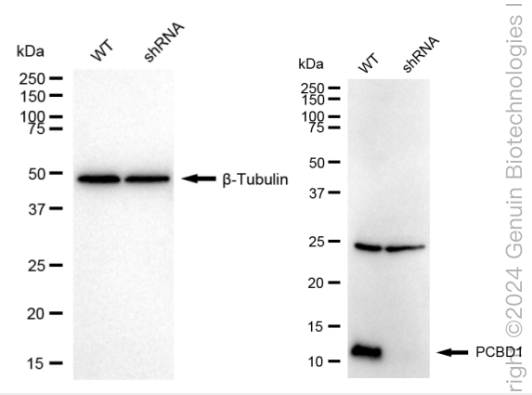
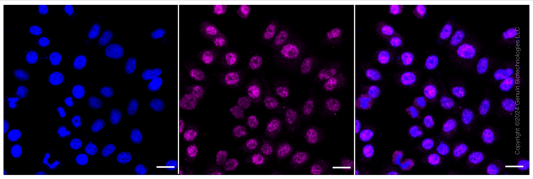


Western blotting analysis using anti-PCBD1 antibody (Cat#AGI1625). PCBD1 expression in wild-type (WT) and PCBD1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-PCBD1 antibody (Cat#AGI1625, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Immunocytochemical staining of HepG2 cells with anti-PCBD1 antibody (Cat#AGI1625, 1:1,000). Nuclei were stained blue with DAPI; PCBD1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.