

ARG40801 anti-PCBD1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PCBD1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PCBD1
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-104 of Human PCBD1 (NP_000272.1).
Conjugation	Un-conjugated
Alternate Names	Pterin carbinolamine dehydratase; Phenylalanine hydroxylase-stimulating protein; EC 4.2.1.96; DCOH; Pterin-4-alpha-carbinolamine dehydratase; PCBD; Dimerization cofactor of HNF1; PHS; Dimerization cofactor of hepatocyte nuclear factor 1-alpha; 4-alpha-hydroxy-tetrahydropterin dehydratase; DCoH; PCD

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	SW620	
Observed Size	12 kDa	

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

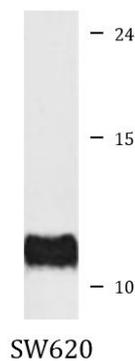
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	PCBD1
Gene Full Name	pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha
Background	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]
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. [UniProt]
Calculated Mw	12 kDa
Cellular Localization	Cytoplasm. Nucleus. Note=Cytoplasmic and/or nuclear. [UniProt]

Images



ARG40801 anti-PCBD1 antibody WB image

Western blot: 25 µg of SW620 cell lysate stained with ARG40801 anti-PCBD1 antibody at 1:1000 dilution.