



Anti-PCBD1 (full length) polyclonal antibody (DPAB-DC2105)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	PCBD1 (AAH06324, 1 a.a. ~ 104 a.a) full-length recombinant protein with GST tag. The sequence is MAGKAHRLSAEERDQLLPNLRAVGWNELEGRDAIFKQFHFKDFNRAFGFMTRVALQAEKL DHHPEWFNVYNKVKHITLSTHECAGLSERDINLASFIEQVAVSMT
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PCBD1 pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha [Homo sapiens (human)]
Official Symbol	PCBD1
Synonyms	PCBD1; pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha; PCD; PHS; DCOH; PCBD; pterin-4-alpha-carbinolamine dehydratase; dimerizing cofactor for HNF1; 4-alpha-hydroxy-tetrahydropterin dehydratase; phenylalanine hydroxylase-stimulating protein; 6-pyruvoyl-tetrahydropterin synthase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1);
Entrez Gene ID	5092
Protein Refseq	NP_000272
UniProt ID	P61457
Chromosome Location	10q22
Pathway	Metabolism; Phenylalanine and tyrosine catabolism;
Function	4-alpha-hydroxytetrahydrobiopterin dehydratase activity; identical protein binding; phenylalanine 4-monoxygenase activity; protein binding
