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PCBD1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant PCBD1.
Catalog # AT3207a

Product Information

Application	WB
Primary Accession	P61457
Other Accession	BC006324
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	1G11-H5
Calculated MW	12000

Additional Information

Gene ID	5092
Other Names	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, PCBD1, DCOH, PCBD
Target/Specificity	PCBD1 (AAH06324, 1 a.a. ~ 104 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PCBD1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

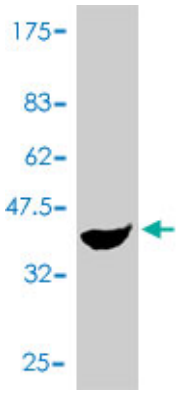
Background

This gene 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).

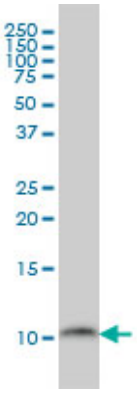
References

Use of genome-wide expression data to mine the Gray Zone of GWA studies leads to novel candidate obesity genes. Naukkarinen J, et al. PLoS Genet, 2010 Jun 3. PMID 20532202.Examination of tetrahydrobiopterin pathway genes in autism. Schnetz-Boutaud NC, et al. Genes Brain Behav, 2009 Nov. PMID 19674121.Exhaustive analysis of BH4 and dopamine biosynthesis genes in patients with Dopa-responsive dystonia. Clot F, et al. Brain, 2009 Jul. PMID 19491146.Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.Can the DCoHalpha isozyme compensate in patients with 4a-hydroxy-tetrahydrobiopterin dehydratase/DCoH deficiency? Hevel JM, et al. Mol Genet Metab, 2006 May. PMID 16423549.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.18 KDa) .



PCBD1 monoclonal antibody (M01), clone 1G11-H5 Western Blot analysis of PCBD1 expression in C32 ((Cat # AT3207a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.