For Research Use Only

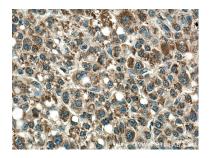
PCCA Polyclonal antibody Catalog Number:21988-1-AP 13 Publications



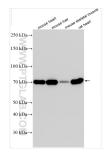
Basic Information	Catalog Number: 21988-1-AP	GenBank Accession Number: BC000140	Purification Method: Antigen affinity purification
	Size: 150ul, Concentration: 600 ug/ml by Nanodrop; Source: Rabbit Isotype:	GeneID (NCBI): 5095 UNIPROT ID: P05165 Full Name: propionyl Coenzyme A carboxylas	Recommended Dilutions: WB: 1:1000-1:8000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:50-1:500
	lgG Immunogen Catalog Number:	alpha polypeptide Calculated MW:	
	AG17271	80 kDa	
		Observed MW: 70 kDa	
Applications	Tested Applications: Positiv		ntrols:
	WB, IHC, IP, ELISA Cited Applications: WB, IHC, IF, IP	mouselive	heart tissue, LO2 cells, NIH/3T3 cells, r tissue, rat liver tissue, mouse skeletal ue, rat heart tissue
	Species Specificity:	IP : LO2 cell	
			n liver cancer tissue, human kidney tissu
	Cited Species: human, mouse		
	Note-IHC: suggested antigen n TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	vely, antigen	
Background Information	Propionyl-CoA carboxylase (PCC) catalyzes the biotin-dependent carboxylation of propionyl-CoA to D-methyl- malonyl CoA, a reaction that occurs in the mitochondrial matrix. PCC is involved in the catabolism of several essential amino acids (methionine, isoleucine, threonine and valine), as well as odd chain fatty acids and cholesterol. Deficiency of PCC results in propionic acidemia, a metabolic disorder characterized by severe metabolic ketoacidosis, vomiting, lethargy and hypotonia. PCC consists of nonidentical subunits (a and β) encoded by different genes (PCCA and PCCB, respectively). The aPCC cDNA contains an open reading frame of 2106 nucleotide bases and codes for a 702 amino acid polypeptide. The mature length subunit is 70 kDa and contains the biotin binding site.(PMID:8852656). This protein has 3 isoforms produced by alternative splicing with the molecula weight of 80 kDa, 77 kDa and 75 kDa. The full length protein has a transit peptide with 52 amino acids which will b removed in mature form. This antibody is specific to PCCA.		
Notable Publications	Author Pul	omed ID Journal	Application
	Lei Jiang 330	087718 Nat Commun	IF
	Wentao He 34	635437 Mol Genet Metab	WB
	Adam Guenzel 250	046265 Hum Gene Ther	WB
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3		
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	storage	
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA) or 1(312) 455-8498 (ourside USA) W: or plab.com			s exclusively available under Protei Ind is not available to purchase fron

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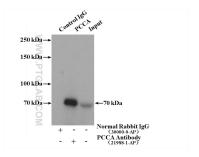
Selected Validation Data



Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 21988-1-AP (PCCA antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 21988-1-AP (PCCA antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



IP result of anti-PCCA (IP:21988-1-AP, 4ug; Detection:21988-1-AP 1:1000) with LO2 cells lysate 1800ug.