For Research Use Only

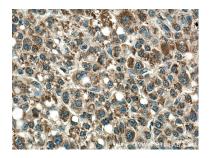
PCCA Polyclonal antibody

Catalog Number:21988-1-AP 10 Publications

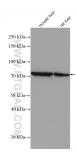


Basic Information	Catalog Number: 21988-1-AP	GenBank Accession Nur BC000140	nber:	Purification Method: Antigen affinity purification	
	Size: GeneID (NCBI):			Recommended Dilutions: WB 1:1000-1:6000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500	
	150ul , Concentration: 400 µg/ml by	P05165 Full Name: propionyl Coenzyme A carboxylase, alpha polypeptide			
	Nanodrop and 260 µg/ml by Bradford method using BSA as the standard;				
	Source:				
	Rabbit				
	Isotype: IgG				
	Immunogen Catalog Number: AG17271	Calculated MW: 80 kDa			
		Observed MW: 70 kDa			
Applications	Tested Applications:	I	Positive Controls:		
	WB, IP, IHC, ELISA	WB:mc		use liver tissue, LO2 cells, NIH/3T3 cells, rat	
	Cited Applications: WB, IF		livertissue		
	Species Specificity:	IP : LO2 cells,			
	human, mouse, rat	I	IHC : human liver cancer tissue, human kidney tissue		
	Cited Species:				
	human, mouse				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
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 (α and β) encoded by different genes (PCCA and PCCB, respectively). The α PCC 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 molecular weight of 80 kDa, 77 kDa and 75 kDa. The full length protein has a transit peptide with 52 amino acids which will be removed in mature form. This antibody is specific to PCCA.				
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	biotin binding site.(PMID:8852656). T weight of 80 kDa, 77 kDa and 75 kDa. removed in mature form. This antibod Author Put Lei Jiang 330 Wentao He 346 Adam Guenzel 250 Storage: Storage suffer: PBS with 0.02% sodium azide and 50 Aliquoting is unnecessary for -20°C s	This protein has 3 isoform The full length protein h dy is specific to PCCA. Demed ID Journal 287718 Nat Cor 535437 Mol Ger 246265 Hum Ger ter shipment. 1% glycerol pH 7.3. torage	nmun net Metab	ength subunit is 70 kDa and contains th alternative splicing with the molecula eptide with 52 amino acids which will b Application IF WB	

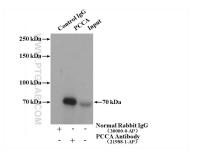
Selected Validation Data



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 1:3000 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.