



PCCA Mouse mAb

Catalog No	YP-mAb-19107
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PCCA
Immunogen	Synthesized peptide derived from human PCCA
Specificity	This antibody detects endogenous levels of PCCA at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal,Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PCCA;Propionyl-CoA carboxylase alpha chain;mitochondrial (PCCase subunit alpha) (Propanoyl-CoA:carbon dioxide ligase subunit alpha); mitochondrial (PCCase subunit alpha) (Propanoyl-CoA:carbon dioxide ligase subunit alpha)
Observed Band	80kDa
Calculated Molecular Weight	80kDa
Cell Pathway	Mitochondrion matrix .
Tissue Specificity	
Function	This is one of the 2 subunits of the biotin-dependent propionyl-CoA carboxylase (PCC), a mitochondrial enzyme involved in the catabolism of odd chain fatty acids, branched-chain amino acids isoleucine, threonine, methionine, and valine and other metabolites . Propionyl-CoA carboxylase catalyzes the carboxylation of propionyl-CoA/propanoyl-CoA to D-methylmalonyl-CoA/(S)-methylmalonyl-CoA . Within the holoenzyme, the alpha subunit catalyzes the ATP-dependent carboxylation of the biotin carried by the biotin carboxyl carrier (BCC) domain, while the beta subunit then transfers the carboxyl group from carboxylated biotin to propionyl-CoA (By similarity). Propionyl-CoA carboxylase also significantly acts on butyryl-CoA/butanoyl-CoA, which is converted to ethylmalonyl-CoA/(2S)-ethylmalonyl-CoA at a much lower rate . Other alternative minor substrates



include (2E)-butenoyl-CoA/crotonoyl-CoA (By similarity).

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

