

## PCCB Rabbit pAb

CatalogNo: YN7379

### | Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 59kD (Calculated)

#### Isotype

- IgG

### | Recommended Dilution Ratios

WB 1:500-2000

### | Storage

#### Storage\*

-15°C to -25°C/1 year(Do not lower than -25°C)

#### Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### | Basic Information

#### Clonality

Polyclonal

### | Immunogen Information

#### Immunogen

Synthesized peptide derived from human PCCB

#### Specificity

This antibody detects endogenous levels of PCCB at Human, Mouse, Rat

### | Target Information

#### Gene name

PCCB

<b>Protein Name</b>	Propionyl-CoA carboxylase beta chain, mitochondrial (PCCase subunit beta) (Propanoyl-CoA:carbon dioxide ligase subunit beta)		
	<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>
	Human	<a href="#">5096</a> ;	<a href="#">P05166</a> ;
	Mouse	<a href="#">66904</a> ;	<a href="#">Q99MN9</a> ;
	Rat		<a href="#">P07633</a> ;
<b>Cellular Localization</b>	Mitochondrion matrix .		
<b>Function</b>	<p>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).</p>		

| Validation Data

| Contact information

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**PCCB Rabbit pAb**

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Antibody | ELISA Kits | Protein | Reagents