

# Acetyl-CoA Carboxylase (Phospho Ser79) (PT0983R) PT® Rabbit mAb

CatalogNo: YM8749 **Recombinant** 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB, IHC, IF, IP, ELISA

### MW

- 266kD (Calculated)  
266kD (Observed)

### Isotype

- IgG, Kappa

## Recommended Dilution Ratios

**IHC 1:200-1:1000****WB 1:1000-1:15000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

## Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

## Basic Information

**Clonality** Monoclonal**Clone Number** PT0983R

## Immunogen Information

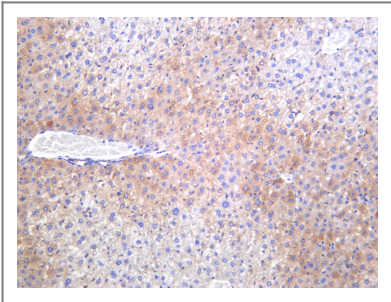
### Specificity

Acetyl-CoA Carboxylase (Phospho Ser79) Monoclonal Antibody detects endogenous levels of ACC protein only when phosphorylated at S79. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): SSmSG

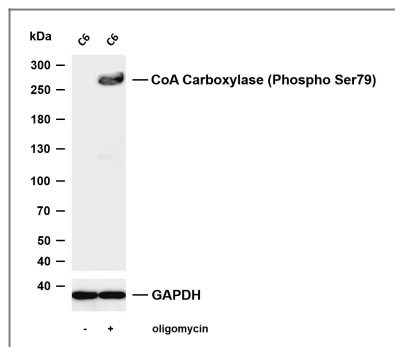
## Target Information

Gene name	ACACB;ACACA		
Protein Name	ACC,Acetyl-CoA carboxylase 2;ACC-beta;Acetyl-CoA carboxylase 1;ACC1;		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">31,32</a> ;	<a href="#">Q13085</a> ; <a href="#">O00763</a> ;
	Mouse	<a href="#">107476</a> ;	<a href="#">Q5SWU9</a> ;
	Rat	<a href="#">60581</a> ;	<a href="#">P11497</a> ;
Cellular Localization	Mitochondrion		
Tissue specificity	Widely expressed with highest levels in heart, skeletal muscle, liver, adipose tissue, mammary gland, adrenal gland and colon (PubMed:9099716). Isoform 3 is expressed in skeletal muscle, adipose tissue and liver (at protein level) (PubMed:19190759). Isoform 3 is detected at high levels in adipose tissue with lower levels in heart, liver, skeletal muscle and testis (PubMed:19190759).		
Function	Catalytic activity:ATP + acetyl-CoA + HCO(3)(-) = ADP + phosphate + malonyl-CoA.,Catalytic activity:ATP + biotin-carboxyl-carrier protein + CO(2) = ADP + phosphate + carboxybiotin-carboxyl-carrier protein.,cofactor:Binds 2 manganese ions per subunit.,cofactor:Biotin.,enzyme regulation:Activated by citrate. Inhibited by malonyl-CoA.,Function:ACC-beta may be involved in the provision of malonyl-CoA or in the regulation of fatty acid oxidation, rather than fatty acid biosynthesis. Carries out three functions: biotin carboxyl carrier protein, biotin carboxylase and carboxyltransferase.,pathway:Lipid metabolism; malonyl-CoA biosynthesis; malonyl-CoA from acetyl-CoA: step 1/1.,similarity:Contains 1 ATP-grasp domain.,similarity:Contains 1 biotin carboxylation domain.,similarity:Contains 1 biotinyl-binding domain.,similarity:Contains 1 carboxyltransferase domain.,subcellular location:May associate with membranes.,tissue specificity:Predominantly expressed in the heart, skeletal muscles and liver.,		

## Validation Data



Mouse liver was stained with anti-Acetyl-CoA Carboxylase (Phospho Ser79) (PT0983R) Rabbit antibody



Various whole cell lysates were separated by 4-8% SDS-PAGE, and the membrane was blotted with anti-Acetyl-CoA Carboxylase (Phospho Ser79) (PT0983R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: C6 Lane 2: C6 was treated with oligomycin(0.5 $\mu$ M) for 30 minutes Predicted band size: 266kDa  
Observed band size: 266kDa

## Contact information

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Carboxylase  
(Phospho Ser79)  
(PT0983R) PT®  
Rabbit mAb**

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