

AMPK α 1 (Phospho Ser485) (PT1374R) PT[™] Rabbit mAb

CatalogNo: YM9216 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IF, ELISA

MW

- 62kD (Calculated)
62kD (Observed)

Isotype

- IgG, Kappa

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

Recommended Dilution Ratios

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

Basic Information

Clonality Monoclonal

Clone Number PT1374R

Immunogen Information

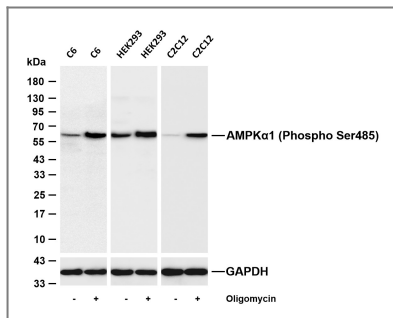
Immunogen AMPK α 1 (Phospho Ser485) (PT1374R) PT[®] Rabbit mAb

Specificity AMPKα1 (Phospho Ser485) Antibody detects endogenous levels of AMPKα1 protein only when phosphorylated at S485. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):EAKSG

| Target Information

Gene name	PRKAA1 AMPK1		
Protein Name	AMPKα1 (Ser485)		
	Organism	Gene ID	UniProt ID
	Human	5562 ;	Q13131 ;
	Mouse	105787 ;	Q5EG47 ;
	Rat	65248 ;	P54645 ;
Cellular Localization	Cytoplasm . Nucleus . In response to stress , recruited by p53/TP53 to specific promoters. .		
Tissue specificity	Brain ,Intestine ,Liver ,Mammary gland ,Platelet ,Testis		
Function	Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,cofactor:Magnesium. ,enzyme regulation:Binding of AMP results in allosteric activation , inducing phosphorylation on Thr-174 by STK11 in complex with STE20-related adapter-alpha (STRAD alpha) pseudo kinase and CAB39. Also activated by phosphorylation by CAMKK2 triggered by a rise in intracellular calcium ions , without detectable changes in the AMP/ATP ratio. ,Function:Responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase. It also regulates cholesterol synthesis via phosphorylation and inactivation of hormone-sensitive lipase and hydroxymethylglutaryl-CoA reductase. Appears to act as a metabolic stress-sensing protein kinase switching off biosynthetic pathways when cellular ATP levels are depleted and when 5'-AMP rises in response to fuel limitation and/or hypoxia. This is a catalytic subunit. ,sequence Caution:Translation N-terminally shortened. ,similarity:Belongs to the protein kinase superfamily. ,similarity:Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily. ,similarity:Contains 1 protein kinase domain. ,subunit:Heterotrimer of an alpha catalytic subunit , a beta and a gamma non-catalytic subunits. Interacts with FNIP1 and FNIP2. ,		

| Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-AMPKα1 (Phospho Ser485) (PT1374R) 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 (0.5μM) for 30 minutes Lane 3: HEK293 Lane 4: HEK293 was treated with Oligomycin (0.5μM) for 30 minutes Lane 5: C2C12 Lane 6: C2C12 was treated with Oligomycin (0.5μM) for 30 minutes Predicted band size: 62kDa Observed band size: 62kDa

Contact information

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AMPKα1 (Phospho Ser485) (PT1374R) PT™ Rabbit mAb

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