

产品名称: AMPK $\beta$ 1 (phospho Ser182) Rabbit Polyclonal Antibody  
产品货号: APRab04230



## 产品概述 (Summary)

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| 产品名称 (Production Name) | AMPK $\beta$ 1 (phospho Ser182) Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody                                 |
| 宿主 (Host)              | Rabbit                                                     |
| 应用 (Application)       | WB,IHC,ICC/IF,ELISA                                        |
| 种属反应性 (Reactivity)     | Human,Mouse,Rat,Monkey                                     |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Phosphorylated                                                                                    |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | PRKAB1                                                                                                                                                  |
| 别名 (Alternative Names) | PRKAB1; AMPK; 5'-AMP-activated protein kinase subunit beta-1; AMPK subunit beta-1; AMPKb                                                                |
| 基因 ID (Gene ID)        | 5564.0                                                                                                                                                  |
| 蛋白 ID (SwissProt ID)   | Q9Y478.The antiserum was produced against synthesized peptide derived from human AMPK beta1 around the phosphorylation site of Ser181. AA range:147-196 |

## 产品应用 (Application)

|                      |                                                                         |
|----------------------|-------------------------------------------------------------------------|
| 稀释比 (Dilution Ratio) | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000 |
|----------------------|-------------------------------------------------------------------------|

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蛋白分子量 (Molecular Weight) 33kDa

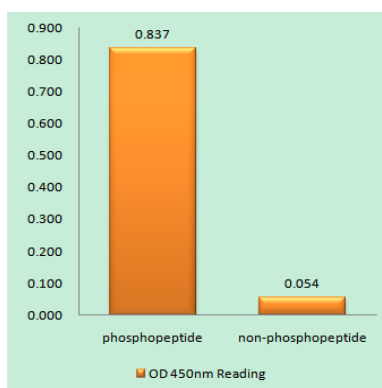
## 研究背景 (Background)

The protein encoded by this gene is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. This subunit may be a positive regulator of AMPK activity. The myristoylation and phosphorylation of this subunit have been shown to affect the enzyme activity and cellular localization of AMPK. This subunit may also serve as an adaptor molecule mediating the association of the AMPK complex. [providedfunction:AMPK is responsible for the regulation of fatty acid synthesis by phosphorylation of acetyl-CoA carboxylase. Also regulates cholesterol synthesis via phosphorylation and inactivation of hydroxymethylglutaryl-CoA reductase and hormone-sensitive lipase. This is a regulatory subunit, may be a positive regulator of AMPK activity. It may also serve as an adaptor molecule for the catalytic alpha-subunit.,PTM:Phosphorylated.,similarity:Belongs to the 5'-AMP-activated protein kinase beta subunit family.,subunit:Heterotrimer of an alpha catalytic subunit, a beta and a gamma non-catalytic regulatory subunits. Interacts with FNIP1 and FNIP2.,

## 研究领域 (Research Area)

AMPK

## 图片 (Image Data)



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using AMPK beta1 (Phospho-Ser181) Antibody

## 注意事项 (Note)

For research use only.

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