

AMPK α 1 (Phospho Ser485) Rabbit pAb

CatalogNo: YP1259

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 65kD (Observed)

Isotype

- IgG

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.

Recommended Dilution Ratios

WB 1:1000-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human AMPK α 1 (Ser485)

Specificity This antibody detects endogenous levels of Human Mouse Rat AMPK α 1 (phospho-Ser485)

Target Information

Gene name PRKAA1 AMPK1

Protein Name AMPK α 1 (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

Contact information

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