

AMPK α 1/2 (phospho Thr183/172) Polyclonal Antibody

Catalog No: #14099



Package Size: #14099-1 50ul #14099-2 100ul

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Description

| | |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name | AMPK α 1/2 (phospho Thr183/172) Polyclonal Antibody |
| Host Species | Rabbit |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Applications | IF/ICC, WB, IHC-p, ELISA |
| Species Reactivity | Human, Mouse, Rat, Monkey, Pig |
| Specificity | Phospho-AMPK α 1/2 (T183/172) Polyclonal Antibody detects endogenous levels of AMPK α 1/2 protein only when phosphorylated at T183/172. |
| Immunogen Description | The antiserum was produced against synthesized peptide derived from human AMPK alpha around the phosphorylation site of Thr172. AA range:140-189 |
| Other Names | PRKAA1; AMPK1; 5'-AMP-activated protein kinase catalytic subunit alpha-1; AMPK subunit alpha-1; Acetyl-CoA carboxylase kinase; ACACA kinase; Hydroxymethylglutaryl-CoA reductase kinase; HMGCR kinase; Tau-protein kinase PRKAA1; PRKAA2; AMPK; |
| Accession No. | Swiss Prot:Q13131/P54646GenelD:5562/5563 |
| Uniprot | Q13131/P54646 |
| GeneID | 5562/5563 |
| SDS-PAGE MW | 63 |
| Concentration | 1 mg/ml |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Storage | -20°C/1 |

Application Details

IF: 1:50-200 Western Blot: 1/500 - 1/2000.

Immunohistochemistry: 1/100 - 1/300.

ELISA: 1/40000. Not yet tested in other applications.

Background

protein kinase AMP-activated catalytic subunit alpha 1(PRKAA1) Homo sapiens The protein encoded by this gene belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008],

Note: This product is for in vitro research use only