

Recombinant Human PRKAA1 protein, His/MBP-tagged

Cat. No. PRKAA1-371H **Lot. No.** (See product label)

SPECIFICATION

| | |
|-------------------------|---|
| Product Overview | Recombinant Human PRKAA1(411-543 aa) fused with His/MBP tag was expressed in E. coli. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 411-543 aa |
| Description | 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. |
| Form | Liquid in PBS |
| Purity | SDS-PAGE >90% |
| Applications | WB Positive Control |
| Stability | Samples are stable for up to twelve months from date of receipt at -70°C. |

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Storage Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name [PRKAA1 protein kinase, AMP-activated, alpha 1 catalytic subunit \[Homo sapiens \]](#)

Official Symbol [PRKAA1](#)

Synonyms PRKAA1; protein kinase, AMP-activated, alpha 1 catalytic subunit; 5-AMP-activated protein kinase catalytic subunit alpha-1; AMPK; alpha; 1; AMPKa1; AMPK alpha 1; AMPK subunit alpha-1; tau-protein kinase PRKAA1; AMP -activate kinase alpha 1 subunit; AMP-activated protein kinase, catalytic, alpha-1; 5-AMP-activated protein kinase, catalytic alpha-1 chain; MGC33776; MGC57364;

Gene ID [5562](#)

mRNA Refseq [NM_006251](#)

Protein Refseq [NP_006242](#)

MIM [602739](#)

UniProt ID [Q13131](#)

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