# Recombinant Human PRKAB1 protein, His/MBP-tagged

**Cat. No.** PRKAB1-370H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human PRKAB1(118-226 aa) fused with His/MBP tag was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 118-226 aa |
| **Description** | 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. |
| **Form** | Liquid in PBS |
| **Purity** | SDS-PAGE >90% |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **Applications** | WB Positive Control |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70ºC. |
| **Storage** | Store it under sterile conditions at -20ºC~-70ºC. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |

## GENE INFORMATION

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| **Gene Name** | PRKAB1 protein kinase, AMP-activated, beta 1 non-catalytic subunit [ Homo sapiens ] |
| **Official Symbol** | PRKAB1 |
| **Synonyms** | PRKAB1; protein kinase, AMP-activated, beta 1 non-catalytic subunit; 5-AMP-activated protein kinase subunit beta-1; AMPK beta 1; AMPKb; AMPK beta -1 chain; AMPK subunit beta-1; AMP-activated protein kinase beta subunit; 5-AMP-activated protein kinase beta-1 subunit; protein kinase, AMP-activated, noncatalytic, beta-1; AMPK; HAMPKb; MGC17785; |
| **Gene ID** | 5564 |
| **mRNA Refseq** | NM_006253 |
| **Protein Refseq** | NP_006244 |
| **MIM** | 602740 |
| **UniProt ID** | Q9Y478 |

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