

## Recombinant Human PRKAG1 protein, His/MBP-tagged

Cat. No. PRKAG1-367H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human PRKAG1(5-82 aa) fused with His/MBP tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	5-82 aa
<b>Description</b>	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 is one of the gamma regulatory subunits of AMPK. Alternatively spliced transcript variants encoding distinct isoforms have been observed.
<b>Form</b>	Liquid in PBS
<b>Purity</b>	SDS-PAGE >90%
<b>Applications</b>	WB Positive Control

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<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Storage</b>	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.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PRKAG1 protein kinase, AMP-activated, gamma 1 non-catalytic subunit [ Homo sapiens ]
<b>Official Symbol</b>	PRKAG1
<b>Synonyms</b>	PRKAG1; protein kinase, AMP-activated, gamma 1 non-catalytic subunit; 5-AMP-activated protein kinase subunit gamma-1; AMPK gamma1; AMPK gamma-1 chain; 5-AMP-activated protein kinase, gamma-1 subunit; AMPKG; MGC8666;
<b>Gene ID</b>	5571
<b>mRNA Refseq</b>	NM_001206709
<b>Protein Refseq</b>	NP_001193638
<b>MIM</b>	602742
<b>UniProt ID</b>	P54619

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