

Active Recombinant Full Length Human PRKAA1 / AMPK (A1/B2/G1) Protein, Flag-tagged

Cat. No. PRKAA1-06H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant PRKAA1 Complex that includes full length human PRKAA1 protein (accession number NP_996790.3) with a N-FLAG tag and full length human PRKAB2 protein (accession number NP_005390.1) without tag and full length human PRKAG1 protein (accession number NP_002724.1) without tag was expressed in Sf9 cells. The molecular weights of PRKAA1, PRKAB2, PRKAG1 are 65.3 kDa, 30 kDa and 37.6 kDa, respectively
Species	Human
Source	Insect Cells
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.
Molecular Mass	PRKAA1: 65.3 kDa PRKAB2: 30 kDa PRKAG1: 37.6 kDa

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Purity	> 90%
Notes	This product is for research use only and is not for use in diagnostic procedures.
Stability	This product is guaranteed for 6 months from date of arrival.
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Concentration	0.6 µg/µL
Storage Buffer	Recombinant PRKAA1 Complex is supplied 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5 mM TCEP.
Full Length	Full L.

GENE INFORMATION

Gene Name	PRKAA1 protein kinase AMP-activated catalytic subunit alpha 1 [Homo sapiens (human)]
Official Symbol	PRKAA1
Synonyms	PRKAA1; protein kinase AMP-activated catalytic subunit alpha 1; AMPK; AMPKa1; AMPK alpha 1; 5'-AMP-activated protein kinase catalytic subunit alpha-1; 5'-AMP-activated protein kinase, catalytic alpha-1 chain; ACACA kinase; AMP -activate kinase alpha 1 subunit; AMP-activated protein kinase, catalytic, alpha-1; AMPK subunit alpha-1; AMPK, alpha, 1; PRKAB2; protein kinase AMP-activated non-catalytic subunit beta 2; 5'-AMP-activated protein kinase subunit beta-2; 5'-AMP-activated protein kinase, beta-2 subunit; AMP-activated protein kinase beta 2 non-

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catalytic subunit; AMPK beta 2; AMPK beta-2 chain; AMPK subunit beta-2; protein kinase, AMP-activated, beta 2 non-catalytic subunit; PRKAG1; protein kinase AMP-activated non-catalytic subunit gamma 1; AMPKG; 5'-AMP-activated protein kinase subunit gamma-1; 5'-AMP-activated protein kinase, gamma-1 subunit; AMPK gamma-1 chain; AMPK gamma1; protein kinase, AMP-activated, gamma 1 non-catalytic subunit

Gene ID [5562](#)

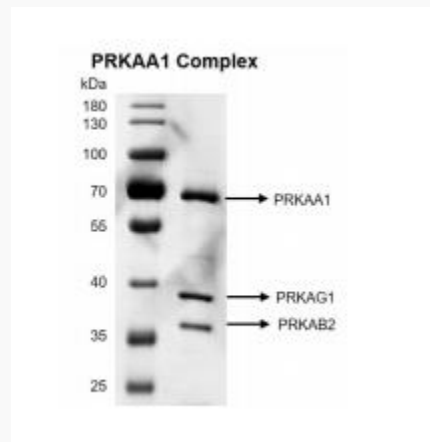
mRNA Refseq [NM_206907](#)

Protein Refseq [NP_996790](#)

MIM [602739](#)

UniProt ID [Q13131](#)

SDS-PAGE



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