

AMPK recombinant protein

AMPK (A2/B1/G2), Active

CATALOG # AAA73092	HOST Sf9 insect cells using baculovirus	APPLICATIONS Western Blot
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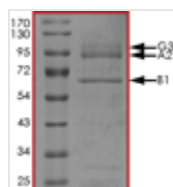
PRODUCT SYNONYMS

AMPK; AMPK (A2/B1/G2); Active; AMPK recombinant protein

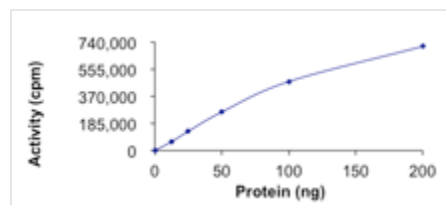
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	Full Length
Sequence Length	9369
Applicable Applications for AMPK recombinant protein	WB (Western Blot), Kinase Assay
Species	Human
Tag	GST/HIS
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for AMPK recombinant protein	Description: Recombinant full-length human AMPK (combination of A2/B1/G2 subunits) was expressed by baculovirus in Sf9 insect cells using N-terminal GST and C-terminal His tags. Scientific Background: AMP-activated protein kinase (AMPK) exhibits a key role as a master regulator of cellular energy homeostasis (1). AMPK exists as a heterotrimeric complex composed of a catalytic alpha subunit and regulatory beta and gamma subunits. Binding of AMP to the gamma subunit allosterically activates the complex. AMPK is activated in response to stresses that deplete cellular ATP (low glucose, hypoxia and ischemia) (2) and via signaling pathways in response to adiponectin, leptin and CAMKKbeta.
Product Categories/Family for AMPK recombinant protein	Enzymes; Active Kinases

References	1. Hardie, G.D. The AMP-activated protein kinase pathway - new players upstream and downstream. J. Cell Sci. 2004;117: 5479 -5487. 2. Kahn, B.B. et al. AMP-activated protein kinase: Ancient energy gauge provides clues to modern understanding of metabolism. Cell Metab; 2005: 1, 15 -25.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	157909838
NCBI GeneID	5563
NCBI Accession #	NM_006252.3
NCBI GenBank Nucleotide #	NM_006252
UniProt Accession #	P54646; Q9H1E8; Q9UD43; AAB32732
Molecular Weight	~92 kDa (A2); ~65 kDa (B1); ~105 kDa (G2)
NCBI Official Full Name	Homo sapiens protein kinase AMP-activated catalytic subunit alpha 2 (PRKAA2), mRNA
NCBI Official Synonym Full Names	protein kinase AMP-activated catalytic subunit alpha 2
NCBI Official Symbol	PRKAA2
NCBI Official Synonym Symbols	AMPK; AMPK2; PRKAA; AMPKa2
NCBI Protein Information	5'-AMP-activated protein kinase catalytic subunit alpha-2
UniProt Protein Name	5'-AMP-activated protein kinase catalytic subunit alpha-2
UniProt Gene Name	PRKAA2
UniProt Synonym Gene Names	AMPK; AMPK2; HMGCR kinase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/prkaa2-recombinant-protein-sf9-insect-cells-using-baculovirus-wb-western-blot-kinase-assay/73092>