

AMPK (A2/B2/G1) Recombinant Protein | AMPK recombinant protein

AMPK (A2/B2/G1), Active

CATALOG # AAA73842	HOST Sf9 insect cells	APPLICATIONS Western Blot
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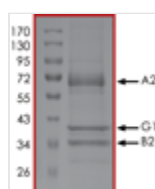
PRODUCT SYNONYMS

AMPK (A2/B2/G1); Active; Subunit A2: PRKAA2; A830082D05; AMPKalpha2 Subunit B2: PRKAB2; 5730553K21Rik; AW049591; BB124140 Subunit G1: PRKAG1; AA571379; BB036179; Prkaac; AMPK recombinant protein

PRODUCT SPECIFICATIONS

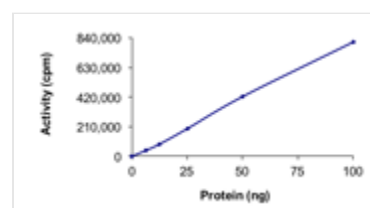
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM sodium phosphate, pH7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Applicable Applications for AMPK recombinant protein	WB (Western Blot), Kinase Assay
Tag	HIS
Species	Mouse
Dry Ice Note	The product may be shipped 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



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for AMPK recombinant protein	Recombinant full-length mouse AMPK (combination of A2/B2/G1 subunits) was expressed by baculovirus in Sf9 insect cells using a N-terminal His tag. The gene accession numbers for the three subunits (A2/B2/G1) are, NM_178143, NM_182997, and NM_016781. 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	Protein Kinases; Apoptosis/Autophagy; Cancer; Cellular Stress; Metabolic Disorder; Ser/Thr 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.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_178143](#)

Molecular Weight

68~72kDa (A2), ~35kDa (B2), and ~40kDa (G1)

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/ampk-a2/b2/g1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73842>