

Product datasheet for **TA345140**

AMPK alpha 2 (PRKAA2) Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|--|
| Product Type: | Primary Antibodies |
| Applications: | WB |
| Recommended Dilution: | WB |
| Reactivity: | Human, Rat, Mouse |
| Host: | Rabbit |
| Isotype: | IgG |
| Clonality: | Polyclonal |
| Immunogen: | The immunogen for anti-PRKAA2 antibody: synthetic peptide directed towards the middle region of human PRKAA2. Synthetic peptide located within the following region: AYHLIIDNRRIMNQASEFYLASSPPSGSFMDDSAMHIPPLKPHPERMPP |
| Formulation: | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i> |
| Purification: | Affinity Purified |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 62 kDa |
| Gene Name: | protein kinase AMP-activated catalytic subunit alpha 2 |
| Database Link: | NP_006243 Entrez Gene 78975 Rat Entrez Gene 108079 Mouse Entrez Gene 5563 Human P54646 |



[View online »](#)

Background: The protein encoded by this gene is a catalytic 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. Studies of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensitivity and is necessary for maintaining myocardial energy homeostasis during ischemia. [provided by RefSeq, Jul 2008]

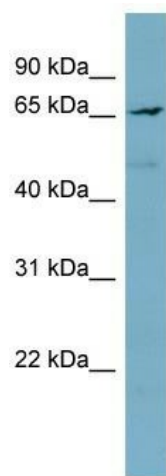
Synonyms: AMPK; AMPK2; AMPKa2; PRKAA

Note: Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Sheep: 100%; Bovine: 100%; Rabbit: 100%; Zebrafish: 100%; Guinea pig: 100%

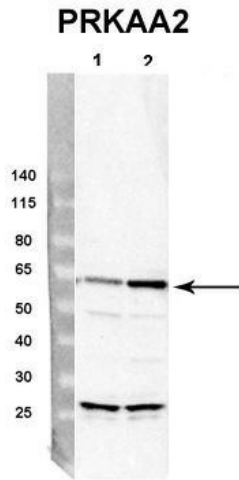
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Adipocytokine signaling pathway, Hypertrophic cardiomyopathy (HCM), Insulin signaling pathway, mTOR signaling pathway, Regulation of autophagy

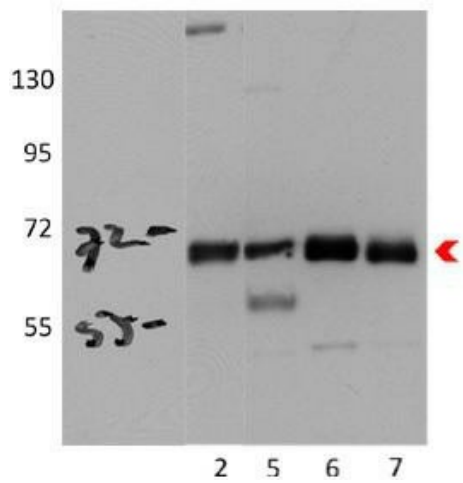
Product images:



WB Suggested Anti-PRKAA2 Antibody Titration:
0.2-1 ug/ml; ELISA Titer: 1:1562500; Positive
Control: Jurkat cell lysate



Sample Type: rat hepatocyte (50ug); Primary Dilution: 1:4000; Secondary Antibody: Donkey anti-Rabbit HRP; Secondary Dilution: 1:10,000; Image Submitted By: Dustin Singer, ; INRA/AgroParistech



PRKAA2 antibody - middle region validated by WB using Rat Liver, Human Muscle, Rat Muscle, Mouse Muscle at 1:1000.