

**AP13880PU-N****Polyclonal Antibody to PRKAA2 (C-term) - Purified**

<b>Alternate names:</b>	5'-AMP-activated protein kinase catalytic subunit alpha-2, AMPK alpha-2 chain, AMPK2
<b>Quantity:</b>	0.4 ml
<b>Concentration:</b>	lot specific
<b>Background:</b>	AMPK2 alpha2 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.
<b>Uniprot ID:</b>	<a href="#">P54646</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>GenElD:</b>	<a href="#">5563</a>
<b>Host / Isotype:</b>	Rabbit / Ig
<b>Immunogen:</b>	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human AMPK.
<b>Format:</b>	<b>State:</b> Liquid Ig fraction <b>Purification:</b> Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS. <b>Buffer System:</b> PBS with 0.09% (W/V) sodium azide
<b>Applications:</b>	ELISA 1:1,000. Western blot 1:100 - 1:500. Flow cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody detects AMPK alpha2 at C-term. <b>Species:</b> Human, Mouse. Other species not tested.
<b>Add. Information:</b>	Molecular weight: 62319 Da.
<b>Storage:</b>	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

## Pictures:

Western blot analysis of anti-AMPK alpha2 C-term Pab (AP13880PU-N) in mouse heart tissue lysate. AMPK alpha2 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

