

Product datasheet for AP14053PU-N

AMPK alpha 2 (PRKAA2) (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies IHC, WB **Applications:** Recommended Dilution: ELISA: 1/1,000. Western Blotting: 1/50 - 1/100. Immunohistochemistry: 1/10 - 1/50. **Reactivity:** Human Host: Rabbit Isotype: lg **Clonality:** Polyclonal Immunogen: This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human PRKAA2. This antibody reacts to AMPK alpha 2 (PRKAA2). Specificity: Formulation: PBS with 0.09% (W/V) sodium azide State: Purified State: Liquid purified lg **Concentration:** lot specific **Purification:** Protein A column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS **Conjugation:** Unconjugated Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Storage: Avoid repeated freezing and thawing. Stability: Shelf life: one year from despatch. Gene Name: protein kinase AMP-activated catalytic subunit alpha 2 Database Link: Entrez Gene 5563 Human P54646



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Serigene AMPK alpha 2 (PRKAA2) (C-term) Rabbit Polyclonal Antibody – AP14053PU-N

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.

Synonyms: AMPK2, AMPK alpha-2 chain

Product images:



Western blot analysis of PRKAA2 (arrow) using rabbit polyclonal PRKAA2 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PRKAA2 gene (Lane 2)



Formalin-fixed and paraffin-embedded human skeletal muscle reacted with PRKAA2 antibody (Cterm), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.

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