

**AP13603PU-N****Polyclonal Antibody to AMPK gamma-3 chain / AMPKG3 - Purified**

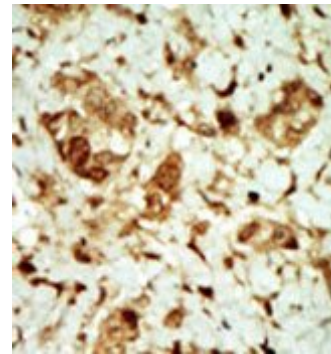
<b>Alternate names:</b>	5'-AMP-activated protein kinase subunit gamma-3, AMPK gamma 3, PRKAG3
<b>Quantity:</b>	0.4 ml
<b>Concentration:</b>	lot specific
<b>Background:</b>	PRKAG3 is a regulatory subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic 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. This subunit is one of the gamma regulatory subunits of AMPK. It is dominantly expressed in skeletal muscle. Studies of the pig counterpart suggest that this subunit may play a key role in the regulation of energy metabolism in skeletal muscle.
<b>Uniprot ID:</b>	<a href="#">Q9UGI9</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>GeneID:</b>	<a href="#">53632</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 center region of human PRKAG3.
<b>Format:</b>	<b>State:</b> Liquid purified Ig <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 blotting: 1/100 - 1/500. Immunohistochemistry: 1/50 - 1/100. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts to PRKAG3. <b>Species:</b> Human, Mouse. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>Caution:</b>	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**General Readings:**

1. Fukuyama, Y., et al. J. Dent. Res. 2007 Sep 01;86(9):903-907. (Applications: WB)

**Pictures:**

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.



Western blot analysis of anti-PRKAG3 Pab in mouse brain tissue lysate. PRKAG3 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

