

## Mouse Monoclonal Antibody to PRKAA2

<b>Catalogue Number</b>	sAP-1509
<b>Target Molecule</b>	<p><b>Name: PRKAA2</b></p> <p><b>Aliases:</b> AMPK; AMPK2; PRKAA; AMPKa2</p> <p><b>MW: 62.3kDa</b></p> <p><b>Entrez Gene ID: 5563</b></p>
<b>Description</b>	<p>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.</p>
<b>Immunogen</b>	Purified recombinant fragment of human PRKAA2 (AA: 453-552) expressed in E. Coli.
<b>Recitative Species</b>	Human;Monkey;
<b>Clone</b>	MM8E11H5
<b>Size and Concentration</b>	100µg/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide
<b>Reconstitution/Storages</b>	Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; ICC: N to A; FCM: 1 to 200 - 1 to 400; IHC: 1 to 200 - 1 to 1000
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1.Pathobiology. 2015;82(5):203-11.2.Acta Crystallogr D Biol Crystallogr. 2011 May;67(Pt 5):480-7.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**