

## Mouse Monoclonal Antibody to PRKAA1

<b>Catalogue Number</b>	sAP-0524
<b>Target Molecule</b>	<b>Name: PRKAA1</b> <b>Aliases:</b> AMPK; AMPKa1; MGC33776; MGC57364; PRKAA1 <b>MW: 64kDa</b> <b>Entrez Gene ID: 5562</b>
<b>Description</b>	The protein belongs to the ser/thr protein kinase family. It is the catalytic subunit of the 5'-prime-AMP-activated protein kinase (AMPK). AMPK is a cellular energy sensor conserved in all eukaryotic cells. The kinase activity of AMPK is activated by the stimuli that increase the cellular AMP/ATP ratio. AMPK regulates the activities of a number of key metabolic enzymes through phosphorylation. It protects cells from stresses that cause ATP depletion by switching off ATP-consuming biosynthetic pathways. Alternatively spliced transcript variants encoding distinct isoforms have been observed.
<b>Immunogen</b>	Purified recombinant fragment of human PRKAA1 expressed in E. Coli.
<b>Reactive Species</b>	Human; Monkey; Mouse; Rat
<b>Clone</b>	MM2B7;
<b>Size and Concentration</b>	100µg/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% 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; IHC: 1 to 200 - 1 to 1000; ICC: 1 to 200 - 1 to 1000; FCM: 1 to 200 - 1 to 400
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. Oncol Rep. 2008 Dec;20(6):1553-9. ; 2. Placenta. 2008 Dec;29(12):1003-8.

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**