

## Mouse Monoclonal Antibody to PRKACA

<b>Catalogue Number</b>	sAP-0930
<b>Target Molecule</b>	<b>Name: PRKACA</b> <b>Aliases: PKACA</b> <b>MW: 40.6kDa</b> <b>Entrez Gene ID: 5566</b>
<b>Description</b>	cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is a member of the Ser/Thr protein kinase family and is a catalytic subunit of cAMP-dependent protein kinase. Alternatively spliced transcript variants encoding distinct isoforms have been observed.
<b>Immunogen</b>	Purified recombinant fragment of human PRKACA (AA: 1-120) expressed in E. Coli.
<b>Recitative Species</b>	Human;
<b>Clone</b>	MM7H3A4;
<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
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. J Struct Biol. 2012 Jun;178(3):300-10.; 2. BMC Biochem. 2011 Aug 3;12:40.

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**