

## Mouse Monoclonal Antibody to PPP1CA

<b>Catalogue Number</b>	sAP-0657
<b>Target Molecule</b>	<p><b>Name:</b> PPP1CA</p> <p><b>Aliases:</b> PP-1A; PPP1A; PP1alpha</p> <p><b>MW:</b> 38kDa</p> <p><b>Entrez Gene ID:</b> 5499</p>
<b>Description</b>	<p>The protein encoded by this gene is one of the three catalytic subunits of protein phosphatase 1 (PP1). PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Increased PP1 activity has been observed in the end stage of heart failure. Studies in both human and mice suggest that PP1 is an important regulator of cardiac function. Mouse studies also suggest that PP1 functions as a suppressor of learning and memory. Three alternatively spliced transcript variants encoding different isoforms have been found for this gene.</p>
<b>Immunogen</b>	Purified recombinant fragment of human PPP1CA expressed in E. Coli. ;
<b>Reactive Species</b>	Human
<b>Clone</b>	MM5E9;
<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
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. J Biol Chem. 2009 Sep 18;284(38):25576-84. ; 2. Mol Cell Biol. 2009 Jun;29(12):3355-66.

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**