

## Product datasheet for **TA347022M**

### PPP1A (PPP1CA) Mouse Monoclonal Antibody [Clone ID: 1H1-F7-D8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	1H1-F7-D8
Applications:	IF, WB
Recommended Dilution:	WB: 1:1000, IF: 1:50
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The immunogen for PPP1CA antibody: purified recombinant human PPP1A protein fragments expressed in E.coli.
Formulation:	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.02% sodium azide, 50% glycerol
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	37 kDa
Gene Name:	protein phosphatase 1 catalytic subunit alpha
Database Link:	<a href="#">NP_001008709</a> <a href="#">Entrez Gene 5499 Human</a> <a href="#">P62136</a>

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<b>Background:</b>	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.
<b>Synonyms:</b>	PP-1A; PP1A; PP1alpha; PPP1A
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	Focal adhesion, Insulin signaling pathway, Long-term potentiation, Oocyte meiosis, Regulation of actin cytoskeleton, Vascular smooth muscle contraction