



## Anti-PPP1CA (aa 224-330) polyclonal antibody (DPAB-DC2375)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</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>Immunogen</b>	PPP1CA (NP_002699, 224 a.a. ~ 330 a.a) partial recombinant protein with GST tag. The sequence is  SFTFGAEVVAKFLHKHDLDLICRAHQVVEDGYEFFAKRQLVTLFSAPNYCGEFDNAGAMM SVDETLMCSFQILKPADKNKGKYGQFGLNPGRITPPRNSAKAKK
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Cell lysate), WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

# GENE INFORMATION

Gene Name	<a href="#">PPP1CA protein phosphatase 1, catalytic subunit, alpha isozyme [ Homo sapiens (human) ]</a>
Official Symbol	PPP1CA
Synonyms	PPP1CA; protein phosphatase 1, catalytic subunit, alpha isozyme; PP1A; PP-1A; PPP1A; PP1alpha; serine/threonine-protein phosphatase PP1-alpha catalytic subunit; protein phosphatase 1, catalytic subunit, alpha isoform; serine/threonine protein phosphatase PP1-alpha 1 catalytic subunit;
Entrez Gene ID	<a href="#">5499</a>
Protein Refseq	<a href="#">NP_001008709</a>
UniProt ID	<a href="#">P62136</a>
Chromosome Location	11q13
Pathway	ALK1 signaling events; Adrenergic signaling in cardiomyocytes; Alcoholism; Amphetamine addiction
Function	metal ion binding; phosphatase activity; protein binding; protein serine/threonine phosphatase activity