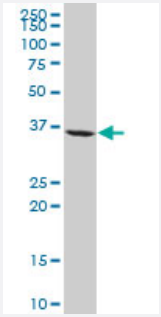
PPP1CA polyclonal antibody (A01)

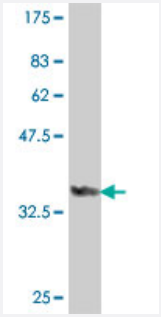
Catalog # H00005499-A01 Size 50 uL

Applications



Western Blot (Cell lysate)

PPP1CA polyclonal antibody (A01), Lot # 060102JCO1 Western Blot analysis of PPP1CA expression in HL-60 (Cat # L014V1).



Western Blot detection against Immunogen (37.88 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant PPP1CA.
Immunogen	PPP1CA (NP_002699, 224 a.a. ~ 330 a.a) partial recombinant protein with GST tag.
Sequence	SFTFGAEVVAKFLHKHDLDLICRAHQVVEDGYEFFAKRQLVTLFSAPNYCGEFDNAGAMMSVDE TLMCSFQILKPADKNKGKYGQFSGLNPGGRPITPPRNSAKAKK
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (100); Rat (100)

Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.88 KDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

  PPP1CA polyclonal antibody (A01), Lot # 060102JCO1 Western Blot analysis of PPP1CA expression in HL-60 (Cat # L014V1).

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

- ELISA

Gene Info — PPP1CA

Entrez GeneID	5499
GeneBank Accession#	NM_002708
Protein Accession#	NP_002699
Gene Name	PPP1CA
Gene Alias	MGC15877, MGC1674, PP-1A, PPP1A
Gene Description	protein phosphatase 1, catalytic subunit, alpha isoform
Omim ID	176875
Gene Ontology	Hyperlink

Gene Summary	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 regulati on of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractili ty, protein synthesis, and HIV-1 viral transcription. Increased PP1 activity has been observed in th e end stage of heart failure. Studies in both human and mice suggest that PP1 is an important reg ulator of cardiac function. Mouse studies also suggest that PP1 functions as a suppressor of learn ing and memory. Three alternatively spliced transcript variants encoding different isoforms have b een found for this gene. [provided by RefSeq
Other Designations	protein phosphatase 1, catalytic subunit, alpha|serine/threonine protein phosphatase PP1-alpha 1 catalytic subunit

Pathway

- Focal adhesion
- Insulin signaling pathway
- Long-term potentiation
- Regulation of actin cytoskeleton
- Vascular smooth muscle contraction