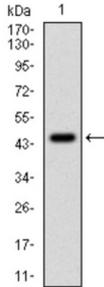
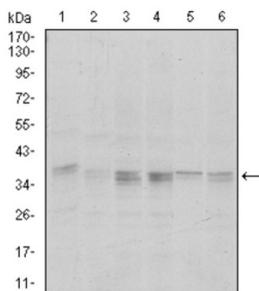


Serine/threonine-Protein Phosphatase PP1-Alpha Catalytic Subunit (PPP1CA) Antibody

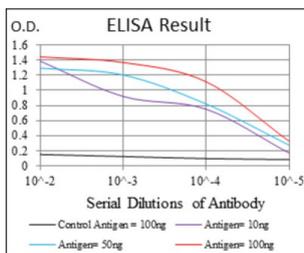
Catalogue No.: abx011880



Western blot analysis using PPP1CA antibody against human PPP1CA (AA: 174-330) recombinant protein. (Expected MW is 38 kDa).



Western blot analysis using PPP1CA antibody against HeLa (1), HepG2 (2), MCF-7 (3), Jurkat (4) and A549 (5) cell lysate.



Red: Control Antigen (100ng) ; Purple: Antigen (10ng) ; Green: Antigen (50ng) ; Blue: Antigen (100ng).

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.

Target: Serine/threonine-Protein Phosphatase PP1-Alpha Catalytic Subunit (PPP1CA)

Clonality: Monoclonal

Reactivity: Human

Tested Applications: ELISA, WB

Datasheet

Version: 3.0.0
Revision date: 15 Aug 2025



Host:	Mouse
Recommended dilutions:	ELISA: 1/10000, WB: 1/500 - 1/2000. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	Purified recombinant fragment of human PPP1CA expressed in E. coli.
Isotype:	IgG ₁
Form:	Liquid
Purification:	Unpurified ascites.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P62136 (UniProt , ExPASy)
Gene Symbol:	PPP1CA
GeneID:	5499
OMIM:	176875
HGNC:	9281
KEGG:	hsa:5499
Ensembl:	ENSG00000172531
String:	9606.ENSP00000326031
Enzyme Commission Number:	EC 3.1.3.16
Molecular Weight:	38 kDa
Buffer:	Ascitic fluid containing 0.03% sodium azide.
Concentration:	Not determined.
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.