

# Mouse anti-Human protein phosphatase 1A (PPP1A) Monoclonal Antibody | anti-PPP1A antibody

protein phosphatase 1A (PPP1A) Antibody

|                               |                      |                            |                                     |
|-------------------------------|----------------------|----------------------------|-------------------------------------|
| CATALOG #<br><b>AAA111307</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Western Blot</b> |
|-------------------------------|----------------------|----------------------------|-------------------------------------|

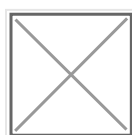
## PRODUCT SYNONYMS

protein phosphatase 1A (PPP1A); Monoclonal Antibody; protein phosphatase 1A (PPP1A) Antibody; PP-1A; PPP1A; MGC1674; MGC15877; PP1alpha; Protein Phosphatase 1 alpha; PPP1CA; anti-PPP1A antibody

## PRODUCT SPECIFICATIONS

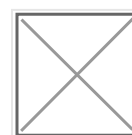
|                                                 |                                                                                                                             |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                       |
| Reactivity                                      | Human                                                                                                                       |
| Clonality                                       | Monoclonal                                                                                                                  |
| Isotype                                         | IgG1                                                                                                                        |
| Specificity                                     | This antibody detects endogenous levels PP1A (N-terminus) and does not cross-react with related proteins.                   |
| Purity/Purification                             | Affinity purified                                                                                                           |
| Form/Format                                     | Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol |
| Sequence Length                                 | 341                                                                                                                         |
| Applicable Applications for anti-PPP1A antibody | WB (Western Blot)                                                                                                           |
| Immunogen                                       | Purified recombinant human PP1A (N-terminus) protein fragments expressed in E Coli.                                         |
| Cellular Localization                           | Cytoplasm; Nucleus                                                                                                          |

## IMAGES



### Application Data

Western blot detection of PP1A(N-terminus) antibody in HepG2, MCF7 & HeLa cell lysates using PP1A(N-terminus) antibody (1:1000 diluted). Predicted band size: 37KDa. Observed band size: 37KDa.



### Application Data

Immunocytochemistry of HeLa cells using anti-PP1A (N-terminus) antibody diluted 1:50.

## ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PPP1A antibody | <p>UniPort Summary Function: Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. May play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca(2+)/calmodulin dependent protein kinase II. Component of the PTW/PP1 phosphatase complex, which plays a role. in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase.</p> <p>Entrez 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 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> |
| Product Categories/Family for anti-PPP1A antibody   | <a href="#">Autophagy antibody</a> ; <a href="#">Cancer</a> ; <a href="#">Cardiovascular</a> ; <a href="#">Cell Biology</a> ; <a href="#">Epigenetics &amp; Nuclear Signaling</a> ; <a href="#">Developmental Biologys</a> ; <a href="#">Immunology</a> ; <a href="#">Drug Discovery Products</a> ; <a href="#">Metabolism</a> ; <a href="#">Neuroscience</a> ; <a href="#">Signal Transduction</a> ; <a href="#">Stem Cells</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| NCBI GI #                        | 56790945                                                                   |
| NCBI GeneID                      | 5499                                                                       |
| NCBI Accession #                 | NP_001008709.1                                                             |
| NCBI GenBank Nucleotide #        | NM_001008709                                                               |
| UniProt Accession #              | P62136; P08129; P20653; P22802; Q07161; A6NNR3; B2R908                     |
| Molecular Weight                 | 37kDa                                                                      |
| NCBI Official Full Name          | serine/threonine-protein phosphatase PP1-alpha catalytic subunit isoform 3 |
| NCBI Official Synonym Full Names | protein phosphatase 1 catalytic subunit alpha                              |
| NCBI Official Symbol             | PPP1CA                                                                     |
| NCBI Official Synonym Symbols    | PP1A; PP-1A; PPP1A; PP1alpha                                               |
| NCBI Protein Information         | serine/threonine-protein phosphatase PP1-alpha catalytic subunit           |
| UniProt Protein Name             | Serine/threonine-protein phosphatase PP1-alpha catalytic subunit           |
| UniProt Gene Name                | <b>PPP1CA</b>                                                              |
| UniProt Synonym Gene Names       | PPP1A; PP-1A                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/protein-phosphatase-1a-ppp1a-antibody-western-blot-elisa/111307>