

## PP2Calpha recombinant protein

PP2Calpha, Active

|                              |                                 |                                     |
|------------------------------|---------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA73782</b> | HOST<br><b>Sf9 insect cells</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|---------------------------------|-------------------------------------|

### PRODUCT SYNONYMS

PP2Calpha; Active; PP2C-ALPHA; PPM1A; PP2CA; MGC9201; FLJ42306; PP2Calpha recombinant protein

### PRODUCT SPECIFICATIONS

|                                                           |                                                                                                                                                                                                                                                |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                      | Sf9 insect cells                                                                                                                                                                                                                               |
| Form/Format                                               | Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                            |
| Applicable Applications for PP2Calpha recombinant protein | WB (Western Blot), Phosphatase Assay                                                                                                                                                                                                           |
| Tag                                                       | GST                                                                                                                                                                                                                                            |
| Species                                                   | Human                                                                                                                                                                                                                                          |
| Dry Ice Note                                              | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                             |
| Preparation and Storage                                   | Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

### IMAGES



#### SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



#### Activity

Specific Activity: Sample Enzyme Activity Plot. For specific information on a given lot, see related technical data sheet.

### ADDITIONAL INFORMATION

|                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for PP2Calpha recombinant protein | <p>Recombinant full-length human PP2Calpha was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_021003.</p> <p>PP2Calpha is a member of the family of Ser/Thr protein phosphatases and is composed of a catalytic subunit and a constant regulatory subunit. PP2C alpha is known to be negative regulators of cell stress response pathways. PP2C alpha has been reported to negatively regulate TGFbeta signaling pathway and cell cycle. PP2C alpha has been shown to dephosphorylate cyclin-dependent kinases (CDKs) and it may be involved in cell cycle control (1). Overexpression of PP2C alpha is reported to cause cell-growth arrest or cell death. PP2C alpha is highly expressed in heart and skeletal muscle (2).</p> |
| Product Categories/Family for PP2Calpha recombinant protein   | <a href="#">Phosphatases</a> ; <a href="#">Cancer</a> ; <a href="#">Cardiovascular Disease</a> ; <a href="#">Cell Cycle</a> ; <a href="#">ERK/MAPK Pathway</a> ; <a href="#">Metabolic Disorder</a> ; <a href="#">Phosphatases</a> ; <a href="#">Ser/Thr Kinases</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| References                                                    | <ol style="list-style-type: none"> <li>1. Parvari, R. et. al: A recessive contiguous gene deletion of chromosome 2p16 associated with cystinuria and a mitochondrial disease. Am. J. Hum. Genet. 69: 869-875, 2001.</li> <li>2. Marley, A. E. et. al: The cloning expression and tissue distribution of human PP2C-beta.FEBS Lett. 431: 121-124, 1998.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                           |

NCBI AND UNIPROT INFORMATION

|                           |           |
|---------------------------|-----------|
| NCBI GenBank Nucleotide # | NM_021003 |
| Molecular Weight          | ~105kDa   |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/pp2calpha-recombinant-protein-sf9-insect-cells-wb-western-blot-phosphatase-assay/73782>