

## Recombinant Human PPP2CA protein, GST-tagged

**Cat. No.** PPP2CA-27617TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PPP2CA(1 a.a. - 309 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 1-309 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | This gene encodes the phosphatase 2A catalytic subunit. Protein phosphatase 2A is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. This gene encodes an alpha isoform of the catalytic subunit. |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 62 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MDEKVFTKELDQWIEQLNECKQLSESQVKSLCEKAKEILTKESNVQEVRCPTVCG<br>DVHGGQFHDLMEFLFRIGGKSPDTNYLFMGDYVDRGYYSVETVTLVALKVRYRERITI<br>LRGNHESRQITQVYGFYDECLRKYGNANVWKYFTDLFDYLPLTALVDGQIFCLHGGL<br>SPSIDTLDHIRALDRLQVEVPHEGPMCDLLWSDPDDRGGWGISPRGAGYTFGQDISE<br>TFNHANGLTLVSRHQLVMEGYNWCHDRNVVTIFSAPNYCYRCGNQAAIMELDDTL                                                                                                                                               |

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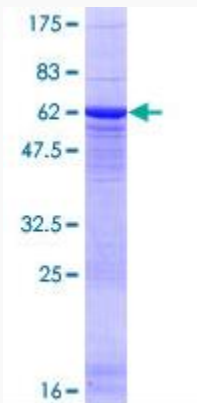
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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | KYSFLQFDPAPRRGEPHVTRRTPDYFL                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Name</b>        | PPP2CA protein phosphatase 2, catalytic subunit, alpha isozyme [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b>  | PPP2CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>         | PPP2CA; protein phosphatase 2, catalytic subunit, alpha isozyme; protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform; serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform; PP2Calpha; protein phosphatase 2A catalytic subunit; alpha isoform; PP2A-alpha; replication protein C; protein phosphatase 2A catalytic subunit, alpha isoform; serine/threonine protein phosphatase 2A, catalytic subunit, alpha isoform; RP-C; PP2Ac; PP2CA; |
| <b>Gene ID</b>          | 5515                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>      | NM_002715                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>   | NP_002706                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>MIM</b>              | 176915                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID</b>       | P67775                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b>                                                          | 5q31.1                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Pathway</b>                                                                      | Activated TLR4 signalling, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Beta-catenin phosphorylation cascade, organism-specific biosystem; C-MYC pathway, organism-specific biosystem; CTLA4 inhibitory signaling, organism-specific biosystem; Canonical Wnt signaling pathway, organism-specific biosystem; Cell Cycle, organism-specific biosystem; |
| <b>Function</b>                                                                     | hydrolase activity; metal ion binding; phosphoprotein phosphatase activity; protein C-terminus binding; protein binding; protein dimerization activity;                                                                                                                                                                                                                                     |
|  |                                                                                                                                                                                                                                                                                                                                                                                             |