

## Recombinant Human PPP2CA 293 Cell Lysate

**Cat. No.** PPP2CA-2929HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform (PPP2CA) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.                                                                     |
| <b>Components</b>          | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.                                                                                                                                                                                                                                                                   |

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**Applications**

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

**GENE INFORMATION**

**Gene Name** [PPP2CA protein phosphatase 2, catalytic subunit, alpha isozyme \[ Homo sapiens \]](#)

**Official Symbol** PPP2CA

**Synonyms**

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;

**Gene ID** [5515](#)

**mRNA Refseq** [NM\\_002715](#)

**Protein Refseq** [NP\\_002706](#)

**MIM** [176915](#)

**UniProt ID** [P67775](#)

**Chromosome Location** 5q31.1

**Pathway** Activated TLR4 signalling, organism-specific biosystem; Adaptive Immune System,

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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;

**Function**

hydrolase activity; metal ion binding; phosphoprotein phosphatase activity; protein C-terminus binding; protein binding; protein dimerization activity;

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