

Recombinant Human PPP1CA 293 Cell Lysate

Cat. No. PPP1CA-2951HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for protein phosphatase 1, catalytic subunit, alpha isoform (PPP1CA), transcript variant 3 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.
Components	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).
Size	0.1 mg
Storage Instruction	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

PPP1CA protein phosphatase 1, catalytic subunit, alpha isozyme [Homo sapiens]

Official Symbol

PPP1CA

Synonyms

PPP1CA; protein phosphatase 1, catalytic subunit, alpha isozyme; PPP1A, protein phosphatase 1, catalytic subunit, alpha isoform; serine/threonine-protein phosphatase PP1-alpha catalytic subunit; PP 1A; PP1alpha; protein phosphatase 1, catalytic subunit, alpha isoform; serine/threonine protein phosphatase PP1-alpha 1 catalytic subunit; PP-1A; PPP1A; MGC1674; MGC15877;

Gene ID

5499

mRNA Refseq

NM_001008709

Protein Refseq

NP_001008709

MIM

176875

UniProt ID

P62136

**Chromosome
Location**

11q13

Pathway

ALK1 signaling events, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; BMP

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receptor signaling, organism-specific biosystem; DARPP-32 events, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem;

Function

hydrolase activity; metal ion binding; protein binding; protein phosphatase type 1 regulator activity; protein serine/threonine phosphatase activity; protein serine/threonine phosphatase activity; ribonucleoprotein complex binding;

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