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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