

## Recombinant Human PPM1A 293 Cell Lysate

Cat. No. PPM1A-2964HCL Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform (PPM1A), transcript variant 1 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.
<b>Applications</b>	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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

<b>Gene Name</b>	PPM1A protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1A [ Homo sapiens ]
<b>Official Symbol</b>	PPM1A
<b>Synonyms</b>	PPM1A; protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1A; protein phosphatase 1A (formerly 2C), magnesium dependent, alpha isoform; protein phosphatase 1A; MGC9201; phosphatase 2C alpha; PP2CA; PP2Calpha; protein phosphatase 2C; alpha isoform; protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform; PP2C-ALPHA; FLJ42306;
<b>Gene ID</b>	5494
<b>mRNA Refseq</b>	NM_021003
<b>Protein Refseq</b>	NP_066283
<b>MIM</b>	606108
<b>UniProt ID</b>	P35813
<b>Chromosome Location</b>	14q23.1
<b>Pathway</b>	BMP receptor signaling, organism-specific biosystem; Energy dependent regulation of mTOR by LKB1-AMPK, organism-specific biosystem; IRS-mediated signalling, organism-specific biosystem; IRS-related events, organism-specific biosystem; Insulin receptor signalling cascade, organism-specific biosystem; MAPK signaling pathway,

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organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem;

**Function**

R-SMAD binding; calmodulin-dependent protein phosphatase activity; hydrolase activity; magnesium ion binding; manganese ion binding; protein C-terminus binding; protein binding; protein serine/threonine phosphatase activity; signal transducer activity;

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