

Recombinant Human PPP1R12A 293 Cell Lysate

Cat. No. PPP1R12A-2947HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for protein phosphatase 1, regulatory (inhibitor) subunit 12A (PPP1R12A), 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.
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.
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

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

GENE INFORMATION

Gene Name [PPP1R12A protein phosphatase 1, regulatory subunit 12A \[Homo sapiens \]](#)

Official Symbol [PPP1R12A](#)

Synonyms [PPP1R12A](#); protein phosphatase 1, regulatory subunit 12A; MYPT1, protein phosphatase 1, regulatory (inhibitor) subunit 12A; protein phosphatase 1 regulatory subunit 12A; M130; MBS; myosin binding subunit; myosin phosphatase targeting subunit 1; myosin phosphatase, target subunit 1; myosin phosphatase-targeting subunit 1; protein phosphatase myosin-binding subunit; protein phosphatase 1, regulatory (inhibitor) subunit 12A; MYPT1; MGC133042;

Gene ID [4659](#)

mRNA Refseq [NM_001143885](#)

Protein Refseq [NP_001137357](#)

MIM [602021](#)

UniProt ID [O14974](#)

Chromosome Location [12q15-q21](#)

Pathway [Focal Adhesion, organism-specific biosystem](#); [Focal adhesion, organism-specific biosystem](#); [Focal adhesion, conserved biosystem](#); [Long-term potentiation, organism-specific biosystem](#); [Long-term potentiation, conserved biosystem](#); [PLK1 signaling](#)

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events, organism-specific biosystem; Regulation of Actin Cytoskeleton, organism-specific biosystem;

Function

14-3-3 protein binding; phosphatase regulator activity; phosphatase regulator activity; phosphoprotein phosphatase activity; protein binding; protein kinase binding; signal transducer activity;

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