

Recombinant Human PPP1R12A 293 Cell Lysate

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

SPECIFICATION

Product Overview

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.

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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

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

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biosystem; Focal adhesion, conserved biosystem; Long-term potentiation, organism-specific biosystem; Long-term potentiation, conserved biosystem; PLK1 signaling 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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