

Recombinant Human RPA1 293 Cell Lysate

Cat. No. RPA1-2243HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for replication protein A1, 70kDa (RPA1) 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

RPA1 replication protein A1, 70kDa [Homo sapiens]

Official Symbol

RPA1

Synonyms

RPA1; replication protein A1, 70kDa; replication protein A1 (70kD); replication protein A 70 kDa DNA-binding subunit; HSSB; REPA1; RF A; RP A; RPA70; MSTP075; RP-A p70; RF-A protein 1; replication factor A protein 1; single-stranded DNA-binding protein; RF-A; RP-A; MST075;

Gene ID

6117

mRNA Refseq

NM_002945

Protein Refseq

NP_002936

MIM

179835

UniProt ID

P27694

Chromosome Location

17p13.3

Pathway

Activation of ATR in response to replication stress, organism-specific biosystem; Activation of the pre-replicative complex, organism-specific biosystem; Assembly of the RAD51-ssDNA nucleoprotein complex, organism-specific biosystem; Cell Cycle,

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organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem;
Cell Cycle, Mitotic, organism-specific biosystem; Chromosome Maintenance,
organism-specific biosystem;

Function

DNA binding; chromatin binding; metal ion binding; protein binding; single-stranded
DNA binding;

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