

## Recombinant Human RPA1 293 Cell Lysate

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

### SPECIFICATION

|                            |   |
|----------------------------|---|
| <b>Species</b>             | Human   |
| <b>Source</b>              | HEK293  |
| <b>Description</b>         | 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.   |
| <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>           | RPA1 replication protein A1, 70kDa [ Homo sapiens ]   |
| <b>Official Symbol</b>     | RPA1  |
| <b>Synonyms</b>            | 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;   |
| <b>Gene ID</b>             | 6117  |
| <b>mRNA Refseq</b>         | NM_002945   |
| <b>Protein Refseq</b>      | NP_002936   |
| <b>MIM</b>                 | 179835  |
| <b>UniProt ID</b>          | P27694  |
| <b>Chromosome Location</b> | 17p13.3   |
| <b>Pathway</b>             | 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, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Chromosome Maintenance, |

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organism-specific biosystem;

**Function**

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

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