

Recombinant Human POT1 293 Cell Lysate

Cat. No. POT1-3005HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for POT1 protection of telomeres 1 homolog (<i>S. pombe</i>) (POT1), 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

POT1 protection of telomeres 1 homolog (S. pombe) [Homo sapiens]

Official Symbol

POT1

Synonyms

POT1; protection of telomeres 1 homolog (S. pombe); protection of telomeres protein 1; DKFZp586D211; hPot1; POT1-like telomere end-binding protein; HPOT1;

Gene ID

25913

mRNA Refseq

NM_001042594

Protein Refseq

NP_001036059

MIM

606478

UniProt ID

Q9NUX5

Chromosome Location

7q31.33

Pathway

Cell Cycle, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; Meiosis, organism-specific biosystem; Meiotic Synapsis, organism-specific biosystem; Packaging Of Telomere Ends, organism-specific biosystem; Regulation of Telomerase, organism-specific biosystem; Shelterin complex, organism-specific biosystem;

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Function

DEAD/H-box RNA helicase binding; DNA binding; protein binding; single-stranded telomeric DNA binding; single-stranded telomeric DNA binding; telomerase inhibitor activity;

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