# Human Protection Of Telomeres 1 Homolog (POT1) ELISA Kit | POT1 elisa kit

Human Protection Of Telomeres 1 Homolog (POT1) ELISA Kit

| CATALOG # | REACTIVITY |
|---|---|
| **AAA187625** | **Human** |

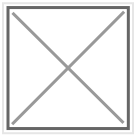
## PRODUCT SYNONYMS

Protection Of Telomeres 1 Homolog (POT1); Human Protection Of Telomeres 1 Homolog (POT1) ELISA Kit; hPot1; POT1-like telomere end-binding protein; POT1 elisa kit

## PRODUCT SPECIFICATIONS

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| **Reactivity** | Human |
| **Specificity** | This assay has high sensitivity and excellent specificity for detection of Protection Of Telomeres 1 Homolog (POT1). No significant cross-reactivity or interference between Protection Of Telomeres 1 Homolog (POT1) and analogues was observed. |
| **Sequence Length** | 538 |
| **Assay Type** | Double-antibody Sandwich |
| **Samples** | Tissue Homogenates, Cell Lysates and Other Biological Fluids |
| **Detection Range** | 0.312-20ng/mL |
| **Sensitivity** | < 0.118ng/mL |
| **Application** | Enzyme-linked immunosorbent assay for Antigen Detection. |
| **Intra-assay Precision (Precision within an assay)** | 3 samples with low, middle and high level Protection Of Telomeres 1 Homolog (POT1) were tested 20 times on one plate, respectively. |
| **Inter-assay Precision (Precision between assays)** | 3 samples with low, middle and high level Protection Of Telomeres 1 Homolog (POT1) were tested on 3 different plates, 8 replicates in each plate. |
| **CV(%) =** | SD/meanX100 |
| **Intra-Assay** | CV<10% |
| **Inter-Assay** | CV<12% |
| **Preparation and Storage** | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

## IMAGES



**Standard Curve (Sample)**

## ADDITIONAL INFORMATION

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| **Related Product Information for POT1 elisa kit** | The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Protection Of Telomeres 1 Homolog (POT1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Protection Of Telomeres 1 Homolog (POT1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Protection Of Telomeres 1 Homolog (POT1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Protection Of Telomeres 1 Homolog (POT1) in the samples is then determined by comparing the O.D. of the samples to the standard curve. |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 98991776 |
| **NCBI GeneID** | 25913 |
| **NCBI Accession #** | NP_056265.2 |
| **NCBI GenBank Nucleotide #** | NM_015450.2 |
| **UniProt Accession #** | Q9NUX5; O95018; Q5MJ36; Q9H662; Q9NW19; Q9UG95 |
| **Molecular Weight** | 60,534 Da |
| **NCBI Official Full Name** | protection of telomeres protein 1 isoform 1 |
| **NCBI Official Synonym Full Names** | protection of telomeres 1 |
| **NCBI Official Symbol** | POT1 |
| **NCBI Official Synonym Symbols** | GLM9; CMM10; HPOT1 |
| **NCBI Protein Information** | protection of telomeres protein 1 |
| **UniProt Protein Name** | Protection of telomeres protein 1 |
| **UniProt Gene Name** | **POT1** |
| **UniProt Synonym Gene Names** | hPot1 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/human-elisa-kits/protection-of-telomeres-1-homolog-pot1/187625