# **Product Name: POT1 Rabbit Polyclonal Antibody**

Catalog #: APRab16380



## **Summary**

Production Name POT1 Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

Host Rabbit
Application WB

**Reactivity** Human, Monkey

## **Performance**

ConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

**Buffer** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

**Purification** Affinity purification

### **Immunogen**

Storage

Gene Name POT1

POT1; Protection of telomeres protein 1; hPot1; POT1-like telomere end-binding Alternative Names

protein

**Gene ID** 25913.0

Q9NUX5.The antiserum was produced against synthesized peptide derived from **SwissProt ID** 

human POT1. AA range:247-296

## **Application**

**Dilution Ratio** WB 1:500-2000

Molecular Weight 70kD

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### **Background**

protection of telomeres 1(POT1) Homo sapiens This gene is a member of the telombin family and encodes a nuclear protein involved in telomere maintenance. Specifically, this protein functions as a member of a multi-protein complex that binds to the TTAGGG repeats of telomeres, regulating telomere length and protecting chromosome ends from illegitimate recombination, catastrophic chromosome instability, and abnormal chromosome segregation. Increased transcriptional expression of this gene is associated with stomach carcinogenesis and its progression. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jul 2008], alternative products: A number of isoforms are produced, function: Component of the telomerase ribonucleoprotein (RNP) complex that is essential for the replication of chromosome termini. Is a component of the double-stranded telomeric DNA-binding TRF1 complex which is involved in the regulation of telomere length by cis-inhibition of telomerase. Also acts as a single-stranded telomeric DNA-binding protein and thus may act as a downstream effector of the TRF1 complex and may transduce information about telomere maintenance and/or length to the telomere terminus. Component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. Shelterin associates with arrays of double-stranded TTAGGG repeats added by telomerase and protects chromosome ends; without its protective activity, telomeres are no longer hidden from the DNA damage surveillance and chromosome ends are inappropriately processed by DNA repair pathways. Binds to two or more telomeric single-stranded 5'-TTAGGG-3' repeats (G-strand) and with high specificity to a minimal telomeric singlestranded 5'-TAGGGTTAG-3' sequence. Binds telomeric single-stranded sequences internally or at proximity of a 3'-end. Its activity is TERT dependent but it does not increase TERT activity, similarity: Belongs to the telombin family, subcellular location:Colocalizes with telomeric DNA.,subunit:Homodimer or homooligomer. Component of the shelterin complex (telosome) composed of TERF1, TERF2, TINF2, TERF2IP, ACD and POT1. Binds single-stranded telomeric DNA as a monomer (By similarity). Component of the telomerase holoenzyme complex at least composed of TERT, DKC1, WDR79/TCAB1, NOP10, NHP2, GAR1, TEP1, EST1A, POT1 and a telomerase RNA template component (TERC). Found in a complex with TERF1, TINF2 and TNKS1. Interacts with TNKS1. Forms heterodimers with ACD, tissue specificity: Ubiquitous.,

#### **Research Area**

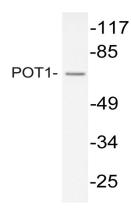
#### **Image Data**

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

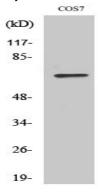
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Western blot analysis of lysate from COS7 cells, using POT1 antibody.



Western Blot analysis of various cells using POT1 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA) .

#### Note

For research use only.