

Rabbit POT1 Polyclonal Antibody | anti-POT1 antibody

POT1 Polyclonal Antibody

CATALOG # AAA295641	HOST Rabbit	REACTIVITY Human, Monkey	APPLICATIONS Western Blot
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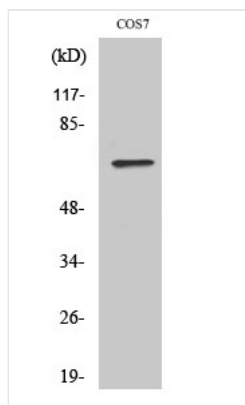
PRODUCT SYNONYMS

POT1; Polyclonal Antibody; POT1 Polyclonal Antibody; Protection of telomeres protein 1; hPot1; POT1-like telomere end-binding protein; anti-POT1 antibody

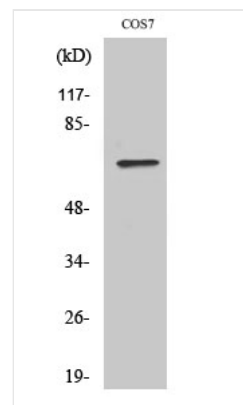
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey
Clonality	Polyclonal
Applicable Applications for anti-POT1 antibody	WB (Western Blot)
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES


WB (Western Blot)

Dilution: Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.


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ADDITIONAL INFORMATION

Related Product Information for anti-POT1 antibody	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 single-stranded 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 by itself. In contrast, the ACD-POT1 heterodimer enhances telomere elongation by increasing telomerase processivity.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	98991776
NCBI GeneID	25913
NCBI Accession #	NP_056265.2
NCBI GenBank Nucleotide #	NM_015450.2
UniProt Accession #	Q9NUX5; Q95018; Q5MJ36; Q9H662; Q9NW19; Q9UG95
Molecular Weight	71,442 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	CMM10; HPOT1
NCBI Protein Information	protection of telomeres protein 1; protection of telomeres 1 homolog; POT1-like telomere end-binding protein
UniProt Protein Name	Protection of telomeres protein 1
UniProt Gene Name	POT1
UniProt Synonym Gene Names	hPot1
UniProt Entry Name	POTE1_HUMAN

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.