

Rabbit anti-Human POT1 Polyclonal Antibody | anti-POT1 antibody

POT1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA233435	Rabbit	Human	Immunofluorescence, Immunohistochemistry, ELISA

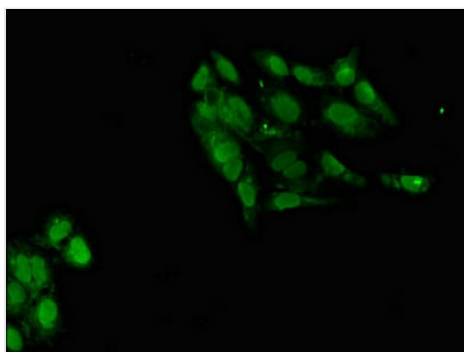
PRODUCT SYNONYMS

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

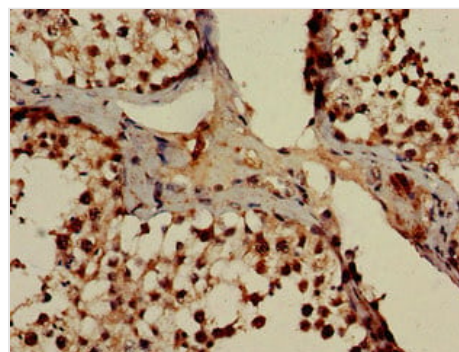
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	503
Applicable Applications for anti-POT1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant Human Protection of telomeres protein 1 protein (250-432AA)
Conjugation	Non-conjugated
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.

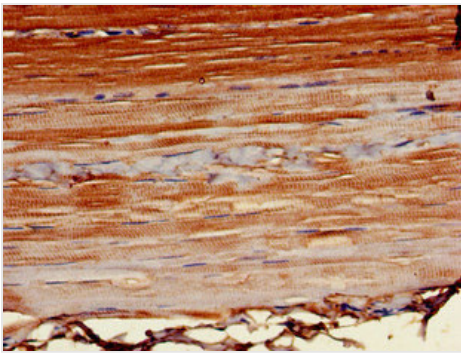
IMAGES


IHC (Immunohistochemistry)

Immunofluorescent analysis of HeLa cells using AAA233435 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)


IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human testis tissue using AAA233435 at dilution of 1:100



IHC (Immunohistochemistry)
 Immunohistochemistry of paraffin-embedded human skeletal muscle tissue using
 AAA233435 at dilution of 1:100

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 #	110671314
NCBI GeneID	25913
NCBI Accession #	NP_001036059.1
NCBI GenBank Nucleotide #	NM_001042594.1
UniProt Accession #	Q9NUX5; O95018; Q5MJ36; Q9H662; Q9NW19; Q9UG95
Molecular Weight	60,534 Da
NCBI Official Full Name	protection of telomeres protein 1 isoform 4
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.

