

Product datasheet

Anti-POT1 antibody ab194480

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Overview

Product name	Anti-POT1 antibody
Description	Mouse polyclonal to POT1
Host species	Mouse
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment (GST-tag) corresponding to Human POT1 aa 1-95. NP_056265 Sequence: MSLVPATNYITPLNQLKGGTIVNVYGVVKFFKPPYLSK GTDYCSVVTIV DQTNVKLTCLLFSGNYEALPIYKNGDIVRFHRLKIQVYK KETQG Database link: Q9NUX5 <div style="float: right;">  Run BLAST with  Run BLAST with </div>
Positive control	MES-SA/Dx5 cell lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Constituent: 50% Glycerol
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab194480** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 71 kDa.

Target

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 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.

Tissue specificity

Ubiquitous.

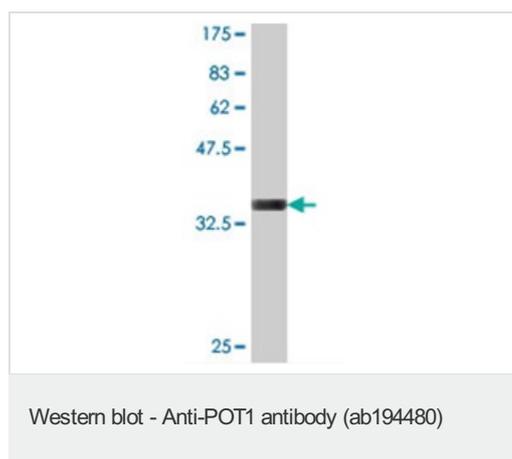
Sequence similarities

Belongs to the telombin family.

Cellular localization

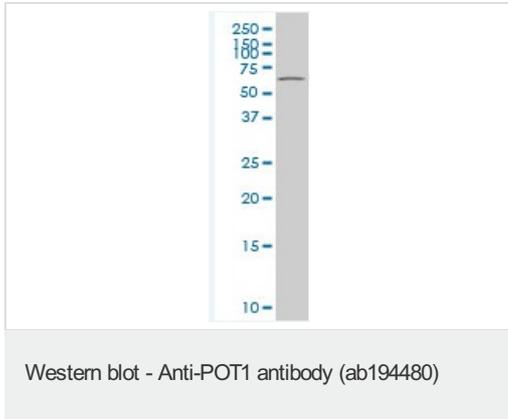
Nucleus. Chromosome > telomere. Colocalizes with telomeric DNA.

Images



Anti-POT1 antibody (ab194480) at 1/1000 dilution + recombinant immunogen at 0.2 µg

Predicted band size: 71 kDa



Anti-POT1 antibody (ab194480) at 1/500 dilution + MES-SA/Dx5 cell lysate at 50 µg

Predicted band size: 71 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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