

Product datasheet

Human POT1 peptide ab23432

1 图像

概述

产品名称 人POT1多肽

描述

性质 Synthetic

氨基酸序列

种属 Human

技术指标

Our [Abpromise guarantee](#) covers the use of **ab23432** in the following tested applications.

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

应用 Blocking

形式 Liquid

补充说明

- First try to dissolve a small amount of peptide in either water or buffer. The more charged residues on a peptide, the more soluble it is in aqueous solutions.
- If the peptide doesn't dissolve try an organic solvent e.g. DMSO, then dilute using water or buffer.
- Consider that any solvent used must be compatible with your assay. If a peptide does not dissolve and you need to recover it, lyophilise to remove the solvent.
- Gentle warming and sonication can effectively aid peptide solubilisation. If the solution is cloudy or has gelled the peptide may be in suspension rather than solubilised.
- Peptides containing cysteine are easily oxidised, so should be prepared in solution just prior to use.

制备和贮存

稳定性和存储

Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Information available upon request.

## 常规信息

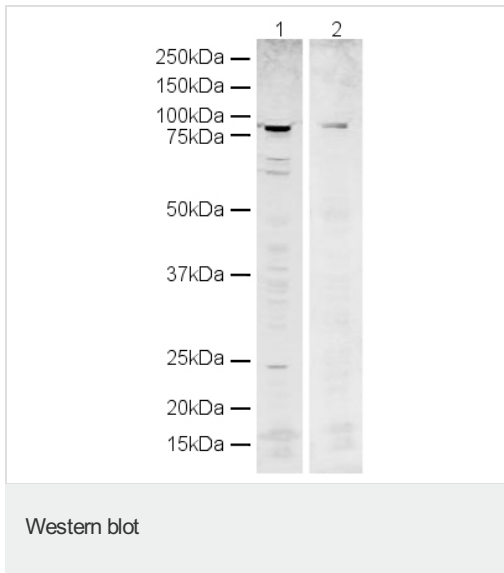
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<b>功能</b>	Component of the telomerase ribonucleoprotein (RNP) complex that is essential for the replication of chromosome termini. Is a component of the double-stranded telomeric DNA-binding TRF1 complex which is involved in the regulation of telomere 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 telomer elongation by increasing telomerase processivity.
<b>组织特异性</b>	Ubiquitous.
<b>序列相似性</b>	Belongs to the telombin family.
<b>细胞定位</b>	Nucleus. Chromosome > telomere. Colocalizes with telomeric DNA.

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## 图片

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**All lanes :** Anti-POT1 antibody ([ab21382](#)) at 1 µg/ml

**Lane 1 :** HeLa whole cell lysate

**Lane 2 :** HeLa whole cell lysate with Human POT1 peptide ([ab23432](#)) at 1 µg/ml

Lysates/proteins at 20 µg per lane.

#### Secondary

**All lanes :** Alexa Fluor Goat polyclonal to Rabbit IgG (700) at 1/10000 dilution

**Predicted band size:** 72 kDa

**Observed band size:** 78 kDa

[ab21382](#) detects a band at ~78kDa corresponding to Pot1. This activity of the antibody is quenched by the addition of the immunizing peptide ([ab23432](#)). A number of smaller, weaker bands are also detected. We believe these represent degradation products.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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