

**TERF1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2759a****Specification**

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**TERF1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P54274](#)**TERF1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 7013**Other Names**

Telomeric repeat-binding factor 1, NIMA-interacting protein 2, TTAGGG repeat-binding factor 1, Telomeric protein Pin2/TRF1, TERF1, PIN2, TRBF1, TRF, TRF1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**TERF1 Antibody (N-term) Blocking Peptide - Protein Information****Name** TERF1**Synonyms** PIN2, TRBF1, TRF, TRF1**Function**

Binds the telomeric double-stranded 5'-TTAGGG-3' repeat and negatively regulates telomere length. Involved in the regulation of the mitotic spindle. Component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. Shelterin associates with arrays of double-stranded 5'-TTAGGG-3' 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.

**Cellular Location**

Nucleus. Cytoplasm, cytoskeleton, spindle. Chromosome, telomere. Note=Colocalizes with telomeric DNA in interphase and prophase cells. Telomeric localization decreases in metaphase, anaphase and telophase. Associates with the mitotic spindle (PubMed:11943150). Colocalizes with TRIOBP isoform 1 at the telomeres in interphase (PubMed:24692559)

**Tissue Location**

Highly expressed and ubiquitous. Isoform Pin2 predominates

### **TERF1 Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **TERF1 Antibody (N-term) Blocking Peptide - Images**

### **TERF1 Antibody (N-term) Blocking Peptide - Background**

TERF1 encodes a telomere specific protein which is a component of the telomere nucleoprotein complex. This protein is present at telomeres throughout the cell cycle and functions as an inhibitor of telomerase, acting in cis to limit the elongation of individual chromosome ends. The protein structure contains a C-terminal Myb motif, a dimerization domain near its N-terminus and an acidic N-terminus.

### **TERF1 Antibody (N-term) Blocking Peptide - References**

Ohishi, T., et al. Cancer Res. 70(5):2041-2052(2010)Zeng, Z., et al. Dev. Cell  
18(2):214-225(2010)Tahmaseb, K., et al. Arch. Biochem. Biophys. 493(2):207-212(2010)