10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TRF (TERF1) Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP2759b

Specification

TRF (TERF1) Antibody (C-term) Blocking peptide - Product Information

Primary Accession P54274

TRF (TERF1) Antibody (C-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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2759b was selected from the C-term region of human TERF1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

TRF (TERF1) Antibody (C-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

TRF (TERF1) Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

TRF (TERF1) Antibody (C-term) Blocking peptide - Images

TRF (TERF1) Antibody (C-term) Blocking peptide - Background

TERF1 is 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.

TRF (TERF1) Antibody (C-term) Blocking peptide - References

Kim,M.K., J. Biol. Chem. 283 (20), 14144-14152 (2008)Etheridge,K.T., J. Biol. Chem. 283 (11), 6935-6941 (2008)Muramatsu,Y., Exp. Cell Res. 314 (5), 1115-1124 (2008)