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TRF (TERF1) Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2759B

Specification

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

Application	**WB,E**
Primary Accession	P54274
Other Accession	O55036
Reactivity	**Human**
Predicted	**Hamster**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**50246**
Antigen Region	**337-366**

TRF (TERF1) Antibody (C-term) - 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
This TRF (TERF1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 337-366 amino acids from the C-terminal region of human TRF (TERF1).

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TRF (TERF1) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

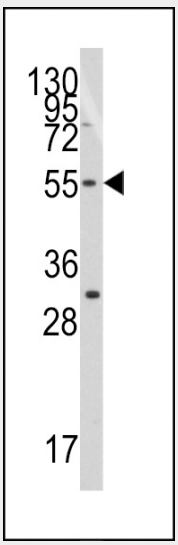
Tissue Location
Highly expressed and ubiquitous. Isoform Pin2 predominates

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

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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



Western blot analysis of anti-TERF1(C-term) Pab (Cat.#AP2759b) in Jurkat cell line lysates (35ug/lane). TERF1(C-term)(arrow) was detected using the purified Pab.

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