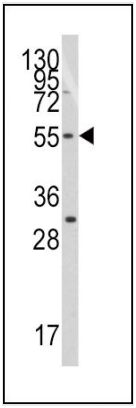
TRF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TRF, Polyclonal Antibody
Full Product Name	TRF, CT (Telomeric Repeat Binding Factor 1, TTAGGG Repeat-binding Factor 1, NIMA-interacting Protein 2, Telomeric Protein Pin2/TRF1, TERF1, PIN2, TRBF1, TRF, TRF1) (MaxLight 750)
Product Gene Name	anti-TRF antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human TERF1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	48kDa
OMIM	600951
3D Structure	ModBase 3D Structure for P54274
Immunogen	Synthetic peptide selected from the C-terminal region of human TERF1 (KLH).
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-TRF antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-TRF antibody	Western Blot (WB), FLISA
Application Notes for anti-TRF antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-TRF antibody	MBS6502292 is an antibody targeting TRF. Also known as TRF, CT (Telomeric Repeat Binding Factor 1, TTAGGG Repeat-binding Factor 1, NIMA-interacting Protein 2, Telomeric Protein Pin2/TRF1, TERF1, PIN2, TRBF1, TRF, TRF1) (MaxLight 750). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-TRF antibody	1. Kim, M.K., J. Biol. Chem. 283(20), 14144-14152 (2008). 2. Etheridge, K.T., J. Biol. Chem. 283(11), 6935-6941 (2008). 3. Muramatsu, Y., Exp. Cell Res. 314(5), 1115-1124 (2008).
Other Notes	Small volumes of anti-TRF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



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

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRF. It may not necessarily be applicable to this product.

NCBI GI #	189409142
NCBI GeneID	7013
NCBI Accession #	NP_059523
UniProt Primary Accession #	P54274
UniProt Related Accession #	P54274
GenBank Nucleotide #	NM_017489.3
NCBI Official Full Name	telomeric repeat-binding factor 1 isoform 1
NCBI Official Synonym Full Names	telomeric repeat binding factor 1
NCBI Official Symbol	TERF1
NCBI Official Synonym Symbols	TRF; PIN2; TRF1; TRBF1; t-TRF1; hTRF1-AS
UniProt Protein Name	Telomeric repeat-binding factor 1
UniProt Synonym Protein Names	NIMA-interacting protein 2; TTAGGG repeat-binding factor 1; Telomeric protein Pin2/TRF1
Protein Family	TBP-related factor
UniProt Gene Name	TERF1
UniProt Synonym Gene Names	PIN2; TRBF1; TRF; TRF1
UniProt Entry Name	TERF1_HUMAN
NCBI Protein Information	telomeric repeat-binding factor 1
NCBI Summary for TRF	This gene 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. Two transcripts of this gene are alternatively spliced products. [provided by RefSeq, Jul 2008]

UniProt Comments for TRF	TRF1: a telomeric repeat binding factor. Binds the telomeric double-stranded TTAGGG repeat and negatively regulates telomere length. Colocalizes with telomeric DNA in interphase and metaphase cells and is located at chromosome ends during metaphase. Involved in the regulation of the mitotic spindle. Expression is tightly regulated during the cell cycle; levels are low in G1 and S phase and increase during G2 phase and mitosis. Two splice variant isoforms have been described. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 8q21.11 Cellular Component: nucleoplasm; chromosome, telomeric region; nuclear telomere cap complex; nuclear chromosome, telomeric region; cytoplasm; nucleolus; spindle; nucleus Molecular Function: protein binding; protein homodimerization activity; DNA binding; protein heterodimerization activity; microtubule binding; telomeric DNA binding; double-stranded telomeric DNA binding; chromatin binding; DNA bending activity Biological Process: response to drug; mitosis; positive regulation of mitosis; negative regulation of telomere maintenance via semi-conservative replication; positive regulation of apoptosis; positive regulation of microtubule polymerization; telomere maintenance via telomerase; positive regulation of mitotic cell cycle; negative regulation of telomerase activity; cell division; negative regulation of DNA replication; telomeric loop formation; mitotic cell cycle spindle assembly checkpoint; G2/M transition of mitotic cell cycle; age-dependent telomere shortening; telomere maintenance; negative regulation of telomere maintenance via telomerase; protein homooligomerization
Research Articles on TRF	**1.** Findings suggest that rescuing naturally decreased TRF1 levels during mouse aging using AAV9-TRF1 gene therapy results in an improved health span.
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