TERF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TERF1, Polyclonal Antibody
Full Product Name	TERF1 Antibody, HRP conjugated
Product Gene Name	anti-TERF1 antibody
Product Synonym Names	Telomeric repeat-binding factor 1; NIMA-interacting protein 2; TTAGGG repeat-binding factor 1; Telomeric protein Pin2/TRF1; TERF1; PIN2; TRBF1; TRF; TRF1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: TERF1 (MBS7052437) HRP Conjugated Antibody: TERF1 (MBS7052438)
Molecular Weight	48,239 Da
OMIM	U40705 mRNA
3D Structure	ModBase 3D Structure for P54274
Immunogen	Recombinant Human Telomeric repeat-binding factor 1 protein (260-439AA)
Conjugation	HRP
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TERF1 antibody	ELISA (EIA)
Related Product Information for anti-TERF1 antibody	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.
Other Notes	Small volumes of anti-TERF1 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.
Searchable Terms for TERF1 purchase	MBS7052438 is an antibody targeting TERF1. Also known as TERF1 Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TERF1. It may not necessarily be applicable to this product.

NCBI GI #	189409140
NCBI GeneID	7013
NCBI Accession #	NP_003209.2
UniProt Primary Accession #	P54274
UniProt Secondary Accession #	Q15553; Q8NHT6; Q93029; A7XP29
UniProt Related Accession #	P54274
GenBank Nucleotide #	NM_003218.3
NCBI Official Full Name	telomeric repeat-binding factor 1 isoform 2
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	Telomeric repeat-binding factor
UniProt Gene Name	TERF1
UniProt Synonym Gene Names	PIN2; TRBF1; TRF; TRF1
NCBI Protein Information	telomeric repeat-binding factor 1
NCBI Summary for TERF1	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 TERF1	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: nuclear chromosome, telomeric region; nuclear telomere cap complex; nucleolus; nucleoplasm; nucleus Molecular Function: DNA bending activity; double-stranded telomeric DNA binding; protein binding; protein homodimerization activity; telomerase activity; telomeric DNA binding; ubiquitin binding Biological Process: negative regulation of DNA replication; negative regulation of telomerase activity; negative regulation of telomere maintenance via telomerase; telomere capping; telomere maintenance; telomere maintenance via telomerase; telomeric loop formation
Research Articles on TERF1	**1.** Data indicate that overexpression of telomeric repeat binding factor 1 (TRF1) in aging endothelial cells (EC) reduced telomere-associated DNA damage foci.
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