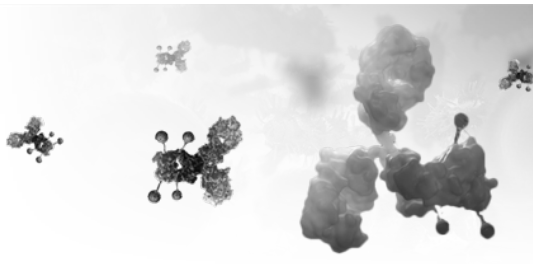

# Human TERF1 peptide (DAG-P1270)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

| | |
|---|---|
| **Antigen Description** | 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] |
| **Specificity** | Highly expressed and ubiquitous. Isoform Pin2 predominates. |
| **Conjugate** | Unconjugated |
| **Sequence Similarities** | Contains 1 HTH myb-type DNA-binding domain. |
| **Format** | Liquid |
| **Preservative** | None |
| **Storage** | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. |

## GENE INFORMATION

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|---|---|
| **Gene Name** | TERF1 telomeric repeat binding factor (NIMA-interacting) 1 [ Homo sapiens (human) ] |
| **Official Symbol** | TERF1 |
| **Synonyms** | TERF1; telomeric repeat binding factor (NIMA-interacting) 1; TRF; PIN2; TRF1; TRBF1; t-TRF1; hTRF1-AS; telomeric repeat-binding factor 1; NIMA-interacting protein 2; telomeric protein Pin2/TRF1; TTAGGG repeat-binding factor 1; |
| **Entrez Gene ID** | 7013 |

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|---|---|
| **mRNA Refseq** | NM_003218.3 |
| **Protein Refseq** | NP_003209.2 |
| **UniProt ID** | P54274 |
| **Chromosome Location** | 8q21.11 |
| **Pathway** | Cell Cycle, organism-specific biosystem; Cellular Senescence, organism-specific biosystem; Cellular responses to stress, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; DNA Damage/Telomere Stress Induced Senescence, organism-specific biosystem; Meiosis, organism-specific biosystem; Meiotic Synapsis, organism-specific biosystem; Packaging Of Telomere Ends, organism-specific biosystem; Regulation of Telomerase, organism-specific biosystem; Shelterin complex, organ |
| **Function** | DNA binding; DNA binding, bending; chromatin binding; double-stranded telomeric DNA binding; microtubule binding; protein binding; protein heterodimerization activity; protein homodimerization activity; telomeric DNA binding; |

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