TINF2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	TINF2, Blocking Peptide
Full Product Name	TINF2 Blocking Peptide
Product Gene Name	TINF2 blocking peptide
Product Synonym Names	AW552114; D14Wsu146e; DKCA3; MGC94711; TERF 1 (TRF 1) interacting nuclear factor 2; TERF 1 interacting nuclear factor 2; TERF1 (TRF1) interacting nuclear factor 2; TERF1 interacting nuclear factor 2; TERF1-interacting nuclear factor 2; Tin 2; TIN2; TINF 2; Tinf2; TINF2_HUMAN; TRF 1 interacting nuclear factor 2; TRF1 interacting nuclear factor 2; TRF1-interacting nuclear protein 2
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	TINF2 peptide (MBS9623593) is used for blocking the activity of TINF2 antibody (MBS9604876)
Molecular Weight	50,023 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (24708849..24711880, complement). Location: 14q12
OMIM	268130
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TINF2 blocking peptide	Blocking/Control
Related Product Information for TINF2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of TINF2 blocking peptide 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 TINF2 purchase	MBS9623593 is a blocking peptide targeting TINF2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TINF2. It may not necessarily be applicable to this product.

NCBI GI #	151101266
NCBI GeneID	26277
NCBI Accession #	NP_001092744.1

UniProt Primary Accession #	Q9BSI4
UniProt Secondary Accession #	Q9H904; Q9UHC2; B3W5Q7
UniProt Related Accession #	Q9BSI4
GenBank Nucleotide #	NM_001099274.2
NCBI Official Full Name	TERF1-interacting nuclear factor 2 isoform 1
NCBI Official Synonym Full Names	TERF1 (TRF1)-interacting nuclear factor 2
NCBI Official Symbol	TINF2
NCBI Official Synonym Symbols	TIN2; DKCA3
UniProt Protein Name	TERF1-interacting nuclear factor 2
UniProt Synonym Protein Names	TRF1-interacting nuclear protein 2
Protein Family	TERF1-interacting nuclear factor
UniProt Gene Name	TINF2
UniProt Synonym Gene Names	TIN2
UniProt Entry Name	TINF2_HUMAN
NCBI Protein Information	TERF1-interacting nuclear factor 2; TRF1-interacting nuclear protein 2
NCBI Summary for TINF2	This gene encodes one of the proteins of the shelterin, or telosome, complex which protects telomeres by allowing the cell to distinguish between telomeres and regions of DNA damage. The protein encoded by this gene is a critical part of shelterin; it interacts with the three DNA-binding proteins of the shelterin complex, and it is important for assembly of the complex. Mutations in this gene cause dyskeratosis congenita (DKC), an inherited bone marrow failure syndrome. [provided by RefSeq, Mar 2010]
UniProt Comments for TINF2	TINF2: Component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. Shelterin associates with arrays of double-stranded TTAGGG 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. Plays a role in shelterin complex assembly. Isoform 1 may have additional role in tethering telomeres to the nuclear matrix. Defects in TINF2 are a cause of dyskeratosis congenita autosomal dominant type 3 (DKCA3). A rare multisystem disorder caused by defective telomere maintenance. It is characterized by progressive bone marrow failure, and the clinical triad of reticulated skin hyperpigmentation, nail dystrophy, and mucosal leukoplakia. Common but variable features include premature graying, aplastic anemia, low platelets, osteoporosis, pulmonary fibrosis, and liver fibrosis among others. Early mortality is often associated with bone marrow failure, infections, fatal pulmonary complications, or malignancy. Defects in TINF2 are a cause of retinopathy exudative with bone marrow failure (ERBMF); also known as Revesz syndrome. ERBMF is characterized by bilateral exudative retinopathy, bone marrow hypoplasia, nail dystrophy, fine hair, cerebellar hypoplasia, and growth retardation. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation Chromosomal Location of Human Ortholog: 14q12 Cellular Component: nucleoplasm; chromosome, telomeric region; nuclear telomere cap complex; nuclear matrix; nucleus Molecular Function: protein binding; DNA binding; telomeric DNA binding Biological Process: telomere assembly; positive regulation of telomere maintenance; telomere maintenance; negative regulation of telomere maintenance via telomerase; negative regulation of epithelial cell proliferation Disease: Dyskeratosis Congenita, Autosomal Dominant, 3; Dyskeratosis Congenita, Autosomal Dominant, 1; Revesz Syndrome

Research Articles on TINF2	**1.** results suggest a link between telomeric proteins (TIN2)and metabolic control, providing an additional mechanism by which telomeric proteins regulate cancer and aging
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