

# Mouse TERF1-interacting nuclear factor 2 (TINF2) ELISA Kit

Catalog No: #EK6530

Orders: order@signalwayantibody.com

Package Size: #EK6530-1 48T #EK6530-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Mouse TERF1-interacting nuclear factor 2 (TINF2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	TIN2; TIN2L; (TRF1)-interacting nuclear factor 2 variant 1
Accession No.	Q9QXG9
Uniprot	Q9QXG9
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.068 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200  $\mu$ L

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate TINF2 in samples. An antibody specific for TINF2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyTINF2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TINF2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TINF2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**TINF2 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.The TIN2 open reading frame encoded a protein of 354 amino acids. A wide variety of human tissues and cell types expressed a 2.4-kb TIN2 transcript on Northern blot analysis, and expression did not vary with growth state, immortalization, or transformation. TIN2 interacted with TRF1 in vitro and in cells, and colocalized with TRF1 in nuclei and metaphase chromosomes.

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Note: This product is for in vitro research use only