

Product datasheet for **TA337130**

TRF2 (TERF2) Mouse Monoclonal Antibody [Clone ID: 3H6B4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	3H6B4
Applications:	WB
Recommended Dilution:	WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Partial recombinant human TRF2 (between residues 300-500) expressed in E. coli [Uniprot Q15554]
Formulation:	PBS, 0.03% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Ammonium sulfate precipitation
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	55 kDa
Gene Name:	telomeric repeat binding factor 2
Database Link:	NP_005643 Entrez Gene 7014 Human Q15554



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Background:

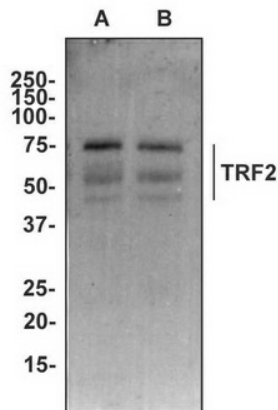
Telomeric repeat-binding factor 2 (TRF2) is a component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection (1). Shelterin associates with arrays of double-stranded TTAGGG repeats added by telomerase and protects chromosome ends; without its protection, telomeres are no longer hidden from DNA damage surveillance and chromosome ends are inappropriately processed by DNA repair pathways (1). TRF2 and TRF1, along with their interaction partners, reorganize the chromosome end into a T-loop, a protected structure, to hide the end of the chromosome (2). TRF2 can also recruit RAP1 to telomeres in order to inhibit non-homologous end joining (NHEJ) (3). In addition, TRF2 is ubiquitously expressed with high expression in the spleen, thymus, and colon (1).

Synonyms:

TRBF2; TRF2

Protein Families:

Transcription Factors

Product images:

Western Blot: TRF2 Antibody (3H6B4) TA337130 - Western blot analysis of Ntera2 (A) and K562 (B) cell lysate using TRF2 antibody at a concentration of 2 ug/ml.