

**Antibody to Telomeric Repeat Binding Factor 1 (TRF1)  
MOUSE MONOCLONAL**

**Catalog Number:** AB-37  
**Quantity:** 1 milliliter  
**Format:** Hybridoma supernatant + 0.005% Thimerosal  
**Host:** Mouse  
**Isotype:** IgG<sub>1</sub> k  
**Immunogen:** Full length recombinant human TRF1

**Background:**

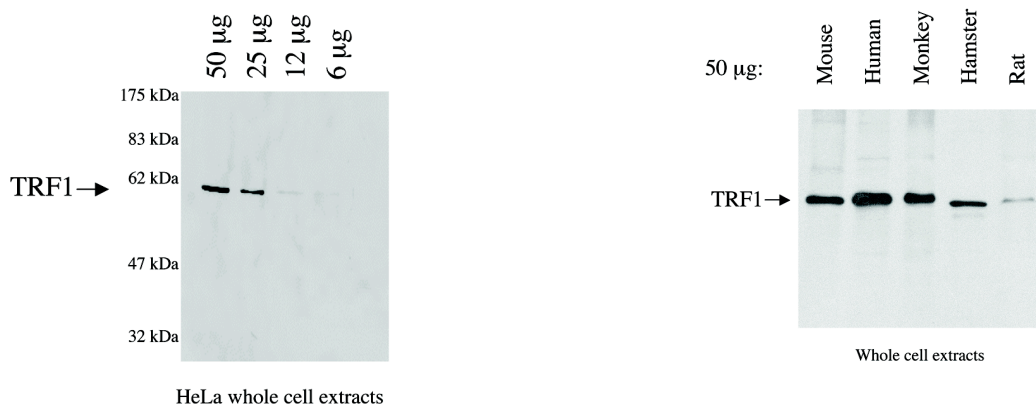
Telomeres, the specialized end structures of chromosomes, contain tandem nucleotide TTAGGG repeats that form nucleoprotein complexes required for replication. The telomeric repeat binding factor 1 (TRF1) is one component of human telomeres and it has been proposed that its function involves regulating telomere elongation. With the postulation that telomere dysfunction and telomerase activation may play important roles in prostate tumorigenesis and loss of genome integrity during breast cancer development, an antibody to TRF1 is a valuable asset in cancer research and other studies.

**Specificity and Preparation:**

This antibody recognizes the human telomeric repeat binding factor 1 (TRF1). Full length recombinant human TRF1 was used as immunogen. It was produced in cell culture supernatant and contains 0.005% Thimerosal as a preservative. The antibody is routinely tested by western blot.

**Usage and Storage:**

Applications include western blot (1:20-1:200, ATS in-house). Store at 4°C. DO NOT STORE FROZEN. The material may display diminished activity as a result of repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.



**References:**

1. Gilley D, Tanaka H, Herbert BS (2005) Telomere dysfunction in aging and cancer. *Int J Biochem Cell Biol* 37(5):1000-1013.
2. Angele S, Falconer A, Foster CS, Taniere P, Eeles RA, Hall J (2004) ATM protein overexpression in prostate tumors: possible role in telomere maintenance. *Am J Clin Pathol* 121(2):231-236.
3. van Steensel B, de Lange T (1997) Control of telomere length by the human telomeric protein TRF1. *Nature* 385(6618):740-743.