

TRF2 (P449) Antibody

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H Mk	Endogenous	65	Rabbit	#Q15554	7014

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

TRF2 (P449) Antibody recognizes endogenous levels of total TRF2 protein. This antibody also cross-reacts with an unidentified protein of 135 kDa.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro449 of human TRF2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Telomeres, the linear ends of chromosomes, are organized into T-loops to prevent them from being recognized by the cell as DNA double stranded breaks (DSBs) (1). The telomeric repeat binding factor proteins TRF1 and TRF2 bind to double-stranded telomeres to allow formation of T-loops (2). A large number of proteins involved in the DNA damage response are found physically associated with TRF2 within telomeres (3). Interestingly, TRF2 can transiently localize to DNA damage-induced DSBs, but overexpression of TRF2 prevents ATM-dependent signaling (4). Phosphorylation of TRF2 at Ser323 has been reported *in vivo*, but no upstream kinase or role has been established for this phosphorylation site (5).

Background References

1. Karlseder, J. et al. (1999) *Science* 283, 1321-5.
2. Yoshimura, S.H. et al. (2004) *Genes Cells* 9, 205-18.
3. Colgin, L. and Reddel, R. (2004) *Curr Biol* 14, R901-2.
4. Bradshaw, P.S. et al. (2005) *Nat Genet* 37, 193-7.
5. Beausoleil, S.A. et al. (2004) *Proc Natl Acad Sci U S A* 101, 12130-5.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **Mk:** Monkey

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