

#13136 Store at -20°C

## TRF2 (D1Y5D) Rabbit mAb

Cell Signaling  
TECHNOLOGY®Orders: 877-616-CELL (2355)  
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	65	Rabbit IgG	#Q15554	7014

Product Usage  
Information

## Application

Western Blotting

## Dilution

1:1000

Immunoprecipitation

1:100

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

## Specificity / Sensitivity

TRF2 (D1Y5D) Rabbit mAb recognizes endogenous levels of total TRF2 protein.

## Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to human TRF2 protein.

## 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

**WB:** Western Blotting **IP:** Immunoprecipitation

## Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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