

## TRF2 (D1Y5D) Rabbit mAb



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<b>Applications:</b> W, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 65	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q15554	<b>Entrez-Gene Id:</b> 7014
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### Product Usage Information

#### Application

Western Blotting  
Immunoprecipitation

#### Dilution

1:1000  
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

**W:** Western Blotting **IP:** Immunoprecipitation

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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