

Store at -20C
#3529**Trf1 (BED5) Mouse mAb**

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	60	Mouse IgG1	#P54274	7013

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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Trf1 (BED5) Mouse mAb detects endogenous levels of total Trf1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant human Trf1.

Background

TRF1 (Telomeric Repeat-binding Factor 1) is one of six core proteins of the shelterin complex (TRF1, TRF2, Rap1, TIN2, POT1 and TPP1), which regulates telomere length and integrity. The shelterin complex localizes to telomeres and contributes to genomic stability by protecting telomeres from inappropriate processing by DNA repair pathways (1). Dysregulated expression of TRF1 promotes genomic instability and cancer progression in mice and humans. Both TRF1 and TRF2 are potential biomarkers and therapeutic targets in human cancer (2-4).

Background References

1. de Lange, T. (2005) *Genes Dev* 19, 2100-10.
2. Bejarano, L. et al. (2017) *Cancer Cell* 32, 590-607.e4.
3. García-Beccaria, M. et al. (2015) *EMBO Mol Med* 7, 930-49.
4. Kallingal, A. et al. (2024) *J Cancer Res Clin Oncol* 150, 353.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

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

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