

#3529Store at -20C

Trf1 (BED5) Mouse mAb



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Mouse IgG1	UniProt ID: #P54274	Entrez-Gene Id: 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	Telomeric Repeat-binding Factor 1 (TRF1) 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) <i>Genes Dev</i> 19, 2100-10. 2. Bejarano, L. et al. (2017) <i>Cancer Cell</i> 32, 590-607.e4. 3. García-Beccaria, M. et al. (2015) <i>EMBO Mol Med</i> 7, 930-49. 4. Kallingal, A. et al. (2024) <i>J Cancer Res Clin Oncol</i> 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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