Datasheet for ABIN7171733

anti-TRF2 antibody (AA 78-238)

3 Images

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Overview

Quantity:	100 µg
Target:	TRF2 (TERF2)
Binding Specificity:	AA 78-238
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TRF2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Telomeric repeat-binding factor 2 protein (78-238AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	>95%, Protein G purified

Target Details

Target:	TRF2 (TERF2)
Alternative Name:	TERF2 (TERF2 Products)
Background:	Background: Binds the telomeric double-stranded 5\\\'-TTAGGG-3\\\' repeat and plays a central role in telomere maintenance and protection against end-to-end fusion of chromosomes. In

Target Details

	addition to its telomeric DNA-binding role, required to recruit a number of factors and enzymes required for telomere protection, including the shelterin complex, TERF2IP/RAP1 and DCLRE1B/Apollo. Component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. Shelterin associates with arrays of double-stranded 5\\\'-TTAGGG-3\\\' repeats added by telomerase and protects chromosome ends, without its protective activity, telomeres are no longer hidden from the DNA damage surveillance and chromosome ends are inappropriately processed by DNA repair pathways. Together with DCLRE1B/Apollo, plays a key role in telomeric loop (T loop) formation by generating 3\\\' single-stranded overhang at the leading end telomeres: T loops have been proposed to protect chromosome ends from degradation and repair. Required both to recruit DCLRE1B/Apollo to telomeres and activate the exonuclease activity of DCLRE1B/Apollo. Preferentially binds to positive supercoiled DNA. Together with DCLRE1B/Apollo, required to control the amount of DNA topoisomerase (TOP1, TOP2A and TOP2B) needed for telomere replication during fork passage and prevent aberrant telomere topology. Recruits TERF2IP/RAP1 to telomeres, thereby participating in to repressing homology-directed repair (HDR), which can affect telomere length. Aliases: Telomeric DNA binding protein antibody, Telomeric DNA-binding protein antibody, Telomeric repeat binding factor 2 antibody, Telomeric repeat binding protein 2 antibody, Telomeric repeat-binding factor 2 antibody, TERF 2 antibody, Terf2 antibody, TERF2_HUMAN antibody, TRBF 2 antibody, TRBF2 antibody, TRF 2 antibody, TRF2 antibody, TTAGGG repeat binding factor 2 antibody, TTAGGG repeat-binding factor 2 antibody
UniProt:	Q15554
Pathways:	Cell Division Cycle, Telomere Maintenance

Application Details

Application Notes:	Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200, IF:1:50-1:200,
Restrictions:	For Research Use only

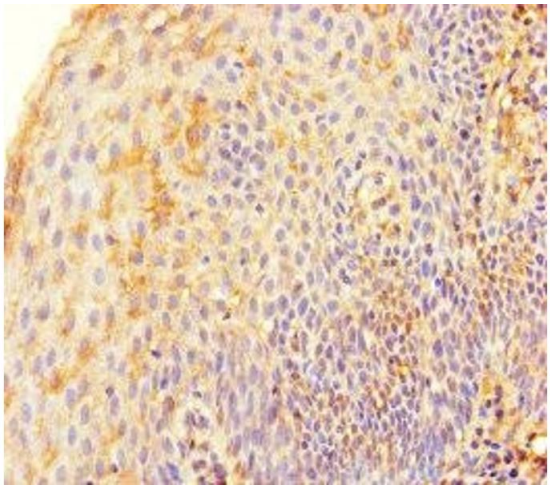
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin

Handling

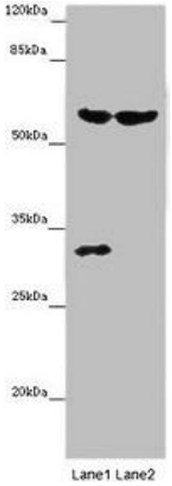
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



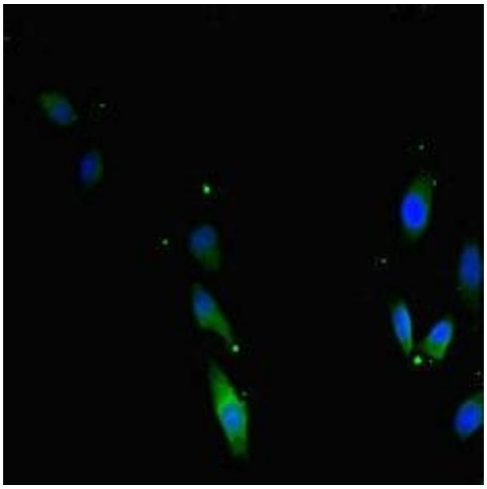
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human tonsil tissue using ABIN7171733 at dilution of 1:100



Western Blotting

Image 2. Western blot All lanes: TERF2 antibody at 14 µg/mL Lane 1: Mouse thymus tissue Lane 2: MCF-7 whole cell lysate Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 60, 33 kDa Observed band size: 60, 31 kDa



Immunofluorescence

Image 3. Immunofluorescent analysis of Hela cells using ABIN7171733 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)