

Product datasheet

Anti-TRF1 antibody ab235948

1 Image

Overview

Product name	Anti-TRF1 antibody
Description	Rabbit polyclonal to TRF1
Host species	Rabbit
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Chinese hamster 
Immunogen	Recombinant fragment corresponding to Human TRF1 aa 260-439. Sequence: AAKVVESKRTRTITSQDKPSGNDVEMETEANLDTRKS VSDKQSAVTESSE GTVSLLRSHKNLFLSKLQHGTQQDLNKKERRVGGTPQ STKSKKESRRATE SRIPVSKSQPVTPPEKHRARKRQAWLWEEDKNLRSGV RKYGEGNWSKILLH YKFNNRTSVMLKDRWRMTMKKLLISSDSED Database link: P54274  Run BLAST with  Run BLAST with
Positive control	IHC-P: Human skeletal muscle tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab235948** in the following tested applications.

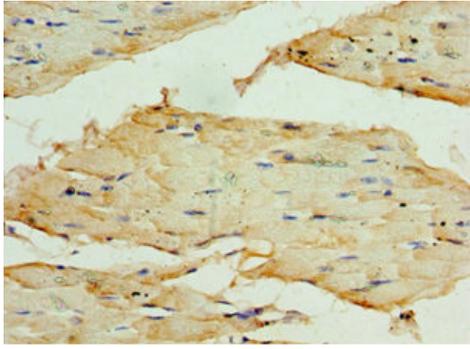
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/20 - 1/200.

Target

Function	Binds the telomeric double-stranded TTAGGG repeat and negatively regulates telomere length. Involved in the regulation of the mitotic spindle. Component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. Shelterin associates with arrays of double-stranded TTAGGG 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.
Tissue specificity	Highly expressed and ubiquitous. Isoform Pin2 predominates.
Sequence similarities	Contains 1 HTH myb-type DNA-binding domain.
Domain	The acidic N-terminal domain binds to the ankyrin repeats of TNKS1 and TNKS2. The C-terminal domain binds microtubules. The TRFH dimerization region mediates the interaction with TIN2.
Post-translational modifications	Phosphorylated preferentially on Ser-219 in an ATM-dependent manner in response to ionizing DNA damage. ADP-ribosylation by TNKS1 or TNKS2 diminishes its ability to bind to telomeric DNA. Ubiquitinated by RLIM/RNF12, leading to its degradation by the proteasome. Ubiquitinated by a SCF (SKP1-CUL1-F-box protein) ubiquitin-protein ligase complex, leading to its degradation by the proteasome.
Cellular localization	Nucleus. Cytoplasm > cytoskeleton > spindle. Chromosome > telomere. Colocalizes with telomeric DNA in interphase and metaphase cells and is located at chromosome ends during metaphase. Associates with the mitotic spindle.

Images



Paraffin-embedded human skeletal muscle tissue stained for TRF1 using ab235948 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRF1 antibody (ab235948)

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