abcam

Product datasheet

Anti-TRF2 + TRF1 antibody [TRF-78] ab10579

★★★★★ 10 Abreviews 66 References 6 Images

Overview

Product name	Anti-TRF2 + TRF1 antibody [TRF-78]
Description	Mouse monoclonal [TRF-78] to TRF2 + TRF1
Host species	Mouse
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Full length protein corresponding to Human TRF1. Produced in baculovirus. Database link: **P54274**
Positive control	ICC/IF: HeLa cells. WB: HeLa, HEK-293, HepG2 and U-2 OS cell lysate. HeLa nuclear cell lysate.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: 0.0268% PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	TRF-78
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab10579 in the following tested applications.

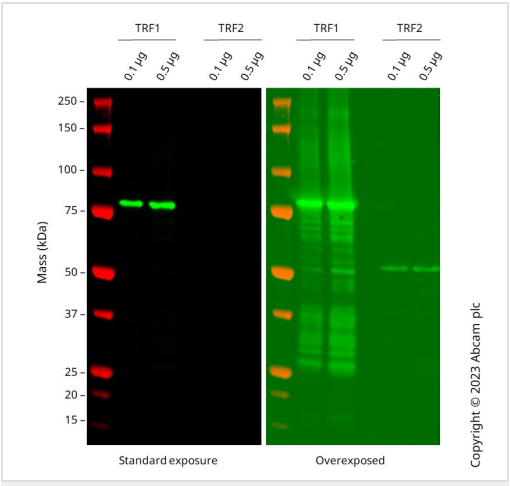
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ **(3)**	Use a concentration of 2 - 4 µg/ml. Predicted molecular weight: 50 kDa.
ICC/IF	★★★★★ **(7)**	1/100.

Target

Cellular localization TRF2: Nucleus. Chromosome > telomere. Colocalizes with telomeric DNA in interphase cells and is located at chromosome ends during metaphase. TRF1: 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



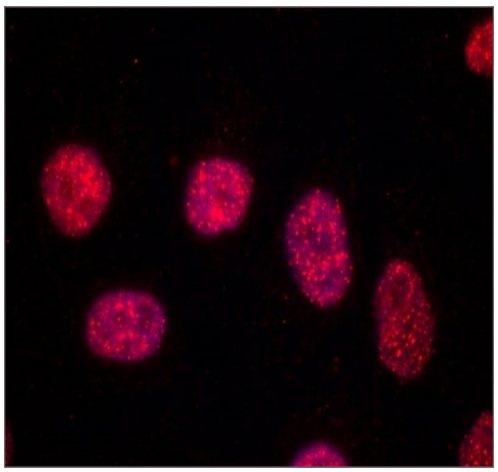
Western blot - Anti-TRF2 + TRF1 antibody [TRF-78] (ab10579)

All lanes : Anti-TRF2 + TRF1 antibody [TRF-78] (ab10579) at 4 µg/ml

Lane 1 : Recombinant Human TRF1 protein cell lysate at 0.1 µg
Lane 2 : Recombinant Human TRF1 protein cell lysate at 0.5 µg
Lane 3 : Empty cell lysate
Lane 4 : Recombinant Human TRF2 protein cell lysate at 0.1 µg
Lane 5 : Recombinant Human TRF2 protein cell lysate at 0.5 µg

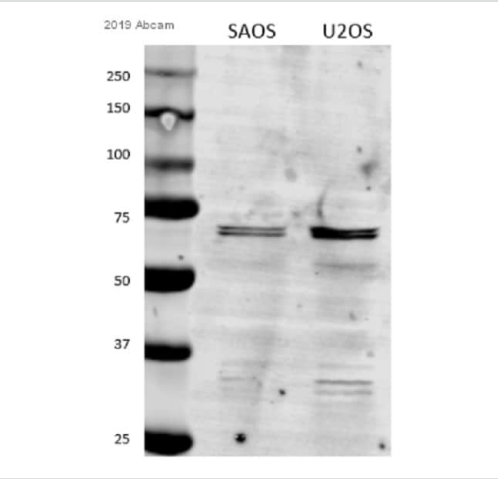
Predicted band size: 50 kDa
Observed band size: 80 kDa

Anti-TERF antibody [TRF-78] (ab10579) staining at 4 ug/ml, shown in green. In Western blot, ab10579 was shown to bind specifically to TERF. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5 % milk in TBS-0.1 % Tween$®$ 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Mouse IgG H&L 800CW at 1/20000 dilution



Immunocytochemistry/ Immunofluorescence - Anti-TRF2 + TRF1 antibody [TRF-78] (ab10579)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (Human epithelial cell line from cervix adenocarcinoma) cells labeling TRF1 and TRF2 with ab10579. Cells were fixed and permeabilized with 4% paraformaldehyde followed by 0.5% Triton™ X-100. Fixed cells were stained with 10 µg/mL Anti-TRF2 + TRF1 antibody [TRF-78]. The antibody was developed using Goat Anti-Mouse IgG, Cy3 conjugate. Cells were counterstained with DAPI (blue) to stain nuclei.



Western blot - Anti-TRF2 + TRF1 antibody [TRF-78] (ab10579)

Verified customer

All lanes : Anti-TRF2 + TRF1 antibody [TRF-78] (ab10579) at 1/1000 dilution

Lane 1 : SAOS2 (Human osteosarcoma cell line) cell lysate
Lane 2 : U-2 OS (Human bone osteosarcoma epithelial cell line) cell lysate

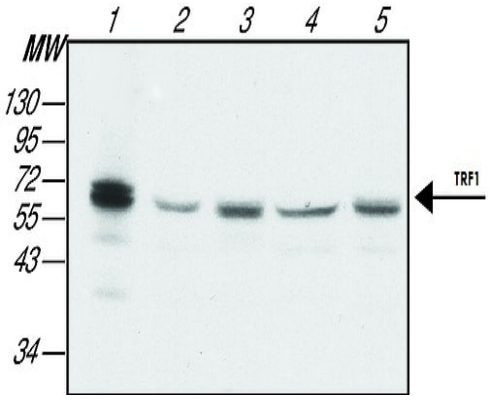
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti Mouse polyclonal IRDye 800CW at 1/1000 dilution

Predicted band size: 50 kDa

Exposure time: 5 minutes

Blocking step
Milk as blocking agent for 2 hours · Concentration: 5% · Temperature: 21°C.
Incubation time
12 hours · Temperature: 4°C · Diluent: 5% milk in TBST.



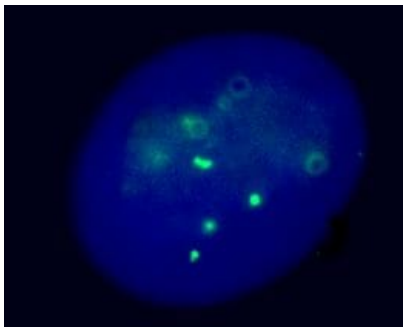
Western blot - Anti-TRF2 + TRF1 antibody [TRF-78] (ab10579)

All lanes : Anti-TRF2 + TRF1 antibody [TRF-78] (ab10579) at 4 µg/ml

Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) nuclear cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate
Lane 4 : U-2 OS (Human bone osteosarcoma epithelial cell line) cell lysate
Lane 5 : HepG2 (Human liver hepatocellular carcinoma cell line) cell lysate

Secondary
All lanes : Goat Anti-Mouse IgG-Peroxidase

Predicted band size: 50 kDa

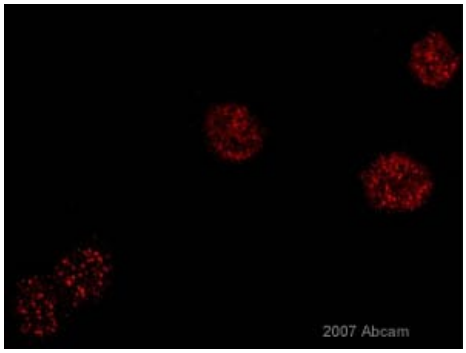


Immunocytochemistry/ Immunofluorescence - Anti-TRF2 + TRF1 antibody [TRF-78] (ab10579)

This image is courtesy of Luke Hughes-Davies and Rhiannon Jade, Gurdon Institute, Cambridge, UK

Immunofluorescent imaging of human cells (U2OS) with ab10579 confirms the specificity of this antibody. A few intense nuclear foci are seen in interphase cells, corresponding to telomeric localisation. The complete absence of background nuclear or cytoplasmic staining confirms the specificity of this antibody. This image is in exact agreement with numerous published reports.

IF was performed with a standard paraformaldehyde technique (fixed in PBS buffered PFH 4% for 5 minutes, permeabilised with 0.5% triton-PBS for 5 minutes, blocked with 5% milk / 0.2% tween for one hour. Primary antibody used at 1/100 in 5% milk / 0.2% TWEEN for one hour, secondary antibody for 30 minutes. All blocking and incubation steps carried out at 37 degrees. Nuclei are visualised using Hoechst stain.



Immunocytochemistry/ Immunofluorescence - Anti-TRF2 + TRF1 antibody [TRF-78] (ab10579)

This image is courtesy of an anonymous Abreview

ab10579 at 1/500 staining human HeLa (Human epithelial cell line from cervix adenocarcinoma) cells by ICC/IF. The cells were parafomaldehyde fixed and blocked with BSA prior to incubation with the antibody for 45 minutes. An Alexa Fluor® 555 conjugated donkey anti-mouse antibody was used as the secondary.

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