OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA301691

TRF2 (TERF2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, Dot, ELISA, FC, ICC/IF, IHC, IP, Simple Western, WB
Recommended Dilution:	Knockdown Validated, Flow Cytometry: 1-5 ug/ml, Dot Blot, Western Blot: 1:2000 - 1:5000, Immunocytochemistry/ Immunofluorescence: 1:50 - 1:200, Chromatin Immunoprecipitation (ChIP): 1:10-1:500, ELISA, Immunoprecipitation: 1:10 - 1:500, Simple Western: 1:25, Immunohistochemistry: 1:200, Immunohistochemistry-Paraffin: 1:200
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Baculovirus purified TRF2 protein.
Formulation:	Tris-glycine, 150mM NaCl, 0.1% BSA. and 0.05% sodium azide
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	telomeric repeat binding factor 2
Database Link:	NP_005643 Entrez Gene 7014 Human Q15554

View online »

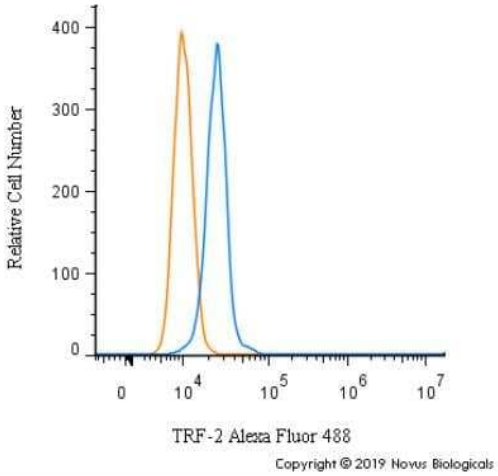
Background: TRF2 is a ubiquitously expressed protein that is implicated in the control of telomere length. TRF2, like TRF1, contains a Myb-related DNA binding motif. It binds to duplex TTAGGG repeats and is localized to all human telomeres in metaphase chromosomes. TRF2 is thought to protect chromosome ends by maintaining the correct structure at telomere termini. The use of mutant forms of TRF2 has implied a role for TRF2 in the prevention of senescence in primary human cells. Recently, it has been shown that inhibition of TRF2 resulted in apoptosis in a subset of mammalian cell types. TRF2 is overexpressed in a number of human tumors and overexpression of TRF2 may be oncogenic.

Synonyms: TRBF2; TRF2

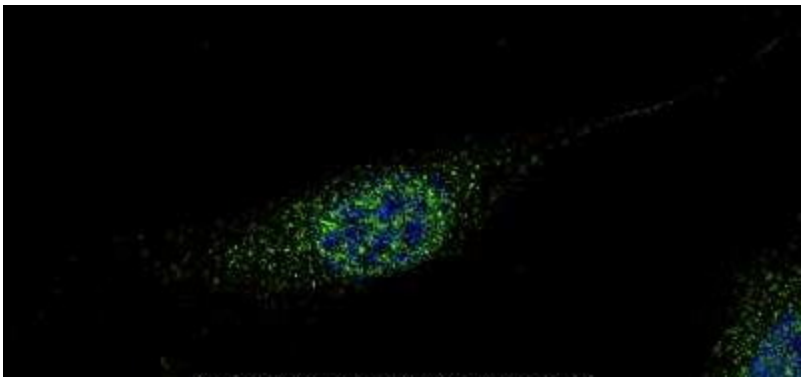
Protein Families: Transcription Factors

Product images:

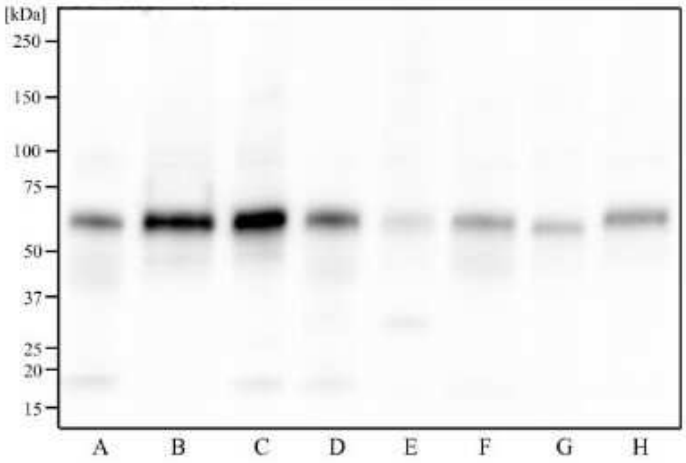
Simple Western: TRF-2 Antibody TA301691 - Lane view shows a specific band for TRF2 in 1.0 mg/mL of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



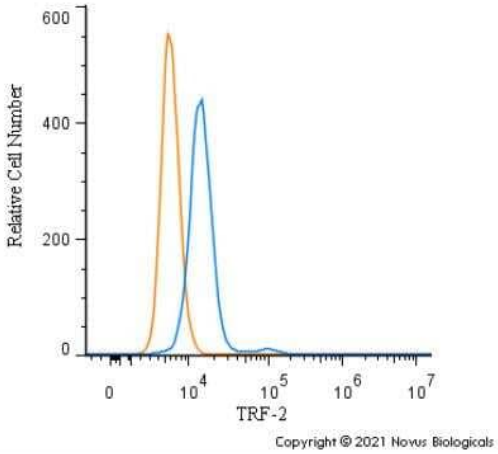
Flow Cytometry: TRF-2 Antibody TA301691 - An intracellular stain was performed on HeLa cells with TRF-2 Antibody TA301691AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



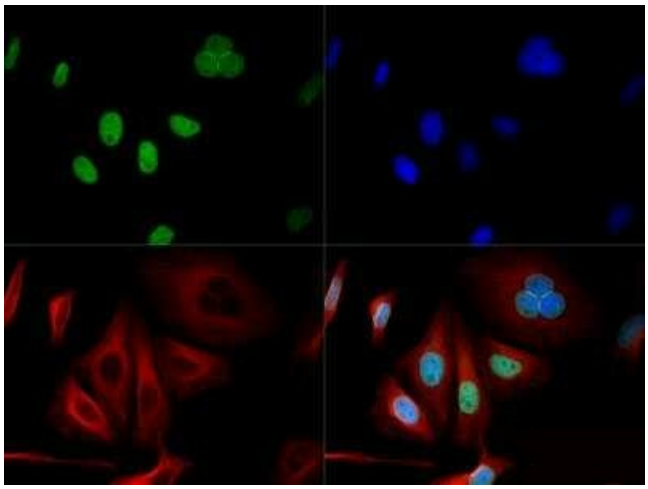
Immunocytochemistry/Immunofluorescence: TRF-2 Antibody TA301691 - NIH3T3 cells were fixed in 4% paraformaldehyde for 10 minutes and permeabilized in 0.5% Triton X-100 in PBS for 5 minutes. The cells were incubated with anti-TRF-2 Antibody TA301691 at 2 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:1000 dilution for 60 minutes. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 100X objective and digitally deconvolved.



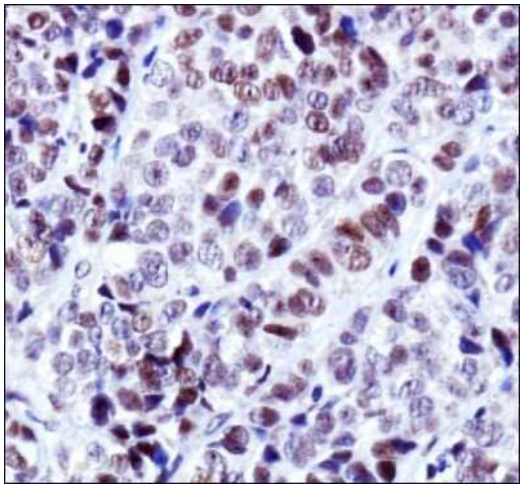
Western Blot: TRF-2 Antibody TA301691 - Analysis of HeLa whole cell lysate (A), HeLa nuclear cell lysate (B), k562 cell lysate (C), HepG2 cell lysate (D), NIH/3T3 cell lysate (E), CHO cell lysate (F), PC12 cell lysate (G), and Cos7 cell lysate (H) using antibody at a concentration of 2 ug/mL.



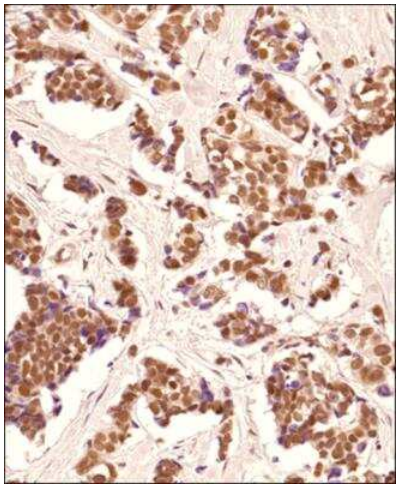
Flow Cytometry: TRF-2 Antibody TA301691 - An intracellular stain was performed on HeLa cells with TRF-2 Antibody TA301691 (blue) and a matched isotype control NBP2-24891 (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1.0 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550 (SA5-10033, Thermo Fisher).



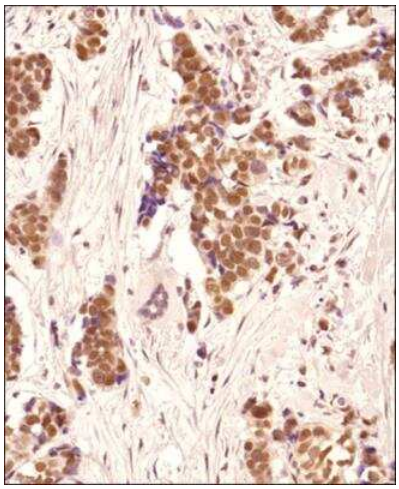
Immunocytochemistry/Immunofluorescence: TRF-2 Antibody TA301691 - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with antibody at a 1:200 dilution overnight at 4 degrees Celsius and detected with DyLight 488 (Green) at a 1:500 dilution. Alpha tubulin was used as a co-stain at a 1:1000 dilution and detected with Dylight 550 (Red). Nuclei were detected with DAPI (Blue) at 2.0 ug/ml in 1X PBS. Cells were imaged using a 40X objective.



Immunohistochemistry-Paraffin: TRF-2 Antibody TA301691 - Analysis in xenografted human breast cancer tissue using DAB with hematoxylin counterstain.



Immunohistochemistry-Paraffin: TRF-2 Antibody TA301691 - Analysis of FFPE human breast cancer tissue with rabbit polyclonal TRF2 antibody at 1:200 dilution. The staining was developed with HRP-DAB detection method and the counterstaining was performed using hematoxylin. This TRF2 antibody generated an expected nuclear signal in all the cancer cells and the stromal cells. In the tested section, only a subset of myoepithelial cells showed positivity for this protein.



Immunohistochemistry-Paraffin: TRF-2 Antibody TA301691 - Analysis of FFPE human breast cancer tissue with rabbit polyclonal TRF2 antibody at a dilution of 1:200. The staining was developed with HRP-DAB detection method and the counterstaining was performed using hematoxylin. This TRF2 antibody generated an expected nuclear signal in all the cancer cells and the stromal cells. In the tested section, only a subset of myoepithelial cells showed positivity for this protein.