

# Product Datasheet

## TRF-2 Antibody (4A794.15) - Azide and BSA Free NBP2-33212

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-33212**

TRF-2 Antibody (4A794.15) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	4A794.15
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	59.6 kDa

Product Description	
Description	Novus Biologicals Mouse TRF-2 Antibody (4A794.15) - Azide and BSA Free (NB100-56506) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF, Simple Western, IP and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	7014
Gene Symbol	TERF2
Species	Human, Mouse, Rat, Deer, Marsupial
Marker	Telomeres marker
Immunogen	This TRF-2 Antibody (4A794.15) - Azide Free was developed against Baculovirus expressed whole length TRF2 protein, used for immunizing mice and splenocytes used to generate the hybridoma clone (NP_005643).

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 2-4 ug/ml, Simple Western, Flow Cytometry 1ul/1 million cells, ELISA 2 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 2 ug/10 <sup>6</sup> cells, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 5 ug/ml, Chromatin Immunoprecipitation (ChIP) 1:10-1:500

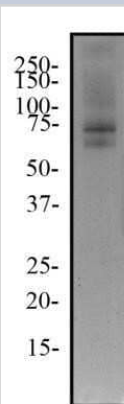


**Application Notes**

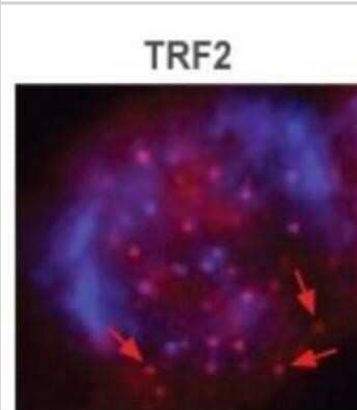
1. TLR2 may be detected as a single band or as a doublet in western blot. Okabe (2000) described the doublet as 65 and 69 kDa using clone 4A794.15. However, observed molecular weights could vary depending on molecular weight standards used and gel conditions. 2. The TRF2 antibody is referred to as both clone 4A794.15 and 4A794 in the published literature. 3. The TRF2 antibody recognizes full-length TRF2 as well as TRF2 forms lacking both the N-terminal basic domain (B) and the telobox Myb-like C-terminal DNA-binding domain (M). TRF2 forms missing the B and M domains are often referred to as mutant TRF2. Refer to the published literature for additional information. 4. Although the exact epitope recognized by the TRF2 antibody has not been mapped, the scientific literature indicates it is in the D or L domain, but not in the B or M domain. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

**Images**

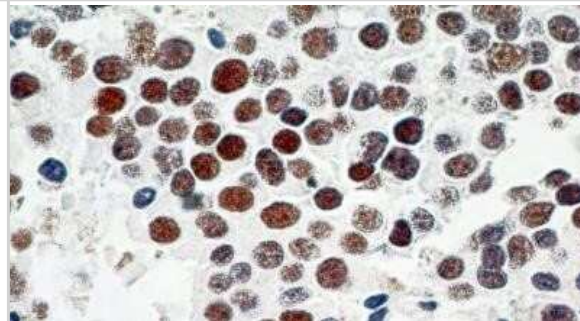
Western Blot: TRF-2 Antibody (4A794.15) - Azide Free [NBP2-33212] - Total protein from mouse 3T3 cells was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/mL anti-TRF2 in 1% non-fat milk in TBST and detected with an anti-mouse HRP secondary antibody using chemiluminescence. Image from the standard format of this antibody.



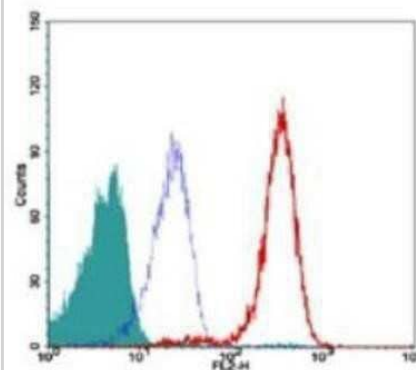
Immunocytochemistry/Immunofluorescence: TRF-2 Antibody (4A794.15) - Azide Free [NBP2-33212] - Staining of TRF2-bound telomeres in human HeLa cells (Courtesy of Fotiadou, et al, 2004). Image from the standard format of this antibody.



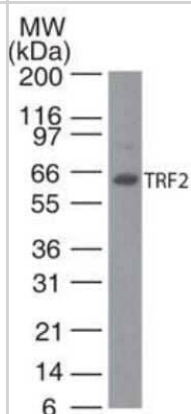
Immunohistochemistry: TRF-2 Antibody (4A794.15) - Azide Free [NBP2-33212] - Transitional cell carcinoma, urinary bladder, stained with TRF2 antibody (4 ug/mL), peroxidase-conjugate and DAB chromogen. Note specific nuclear staining. Tumor/normal adjacent tissue array slide was used for this test. Staining of formalin-fixed tissues



Flow Cytometry: TRF-2 Antibody (4A794.15) - Azide Free [NBP2-33212] - Intracellular flow cytometric analysis of TRF2 in  $10^6$  human Jurkat cells using 0.1  $\mu$ g of NB100-56506. The shaded histogram represents cells alone, blue represents isotype control and red represents NB100-56506, anti-TRF2. Image from the standard format of this antibody.



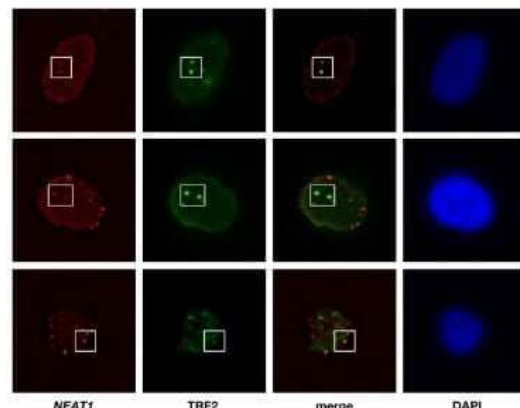
Western Blot: TRF-2 Antibody (4A794.15) - Azide Free [NBP2-33212] - Analysis in human Jurkat cell lysate at 2  $\mu$ g/mL. Goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate solution were used. Image from the standard format of this antibody.



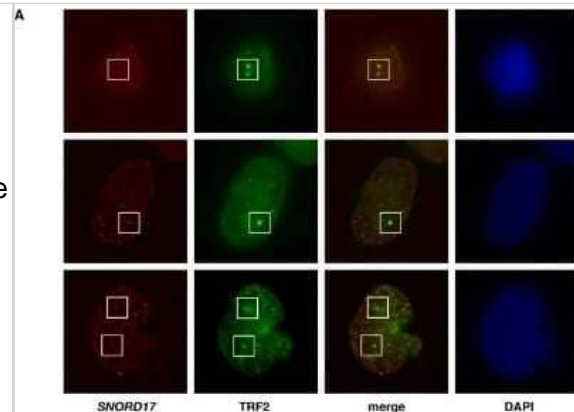
Immunocytochemistry/Immunofluorescence: TRF-2 Antibody (4A794.15) - Azide Free [NBP2-33212] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton-X100. The cells were incubated with anti-TRF-2 (4A794.15) conjugated to FITC [NB100-56506F] at 5  $\mu$ g/mL for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



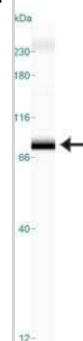
Immunocytochemistry/Immunofluorescence: TRF-2 Antibody (4A794.15) - Azide Free [NBP2-33212] - Localization of candidate RNAs at telomeres. Localization of NEAT1 at telomeres in human U-2 OS cells. Cells were fixed and sequentially incubated with Abs against TRF-2 and AlexaFluor 488-conjugated anti-mouse IgG. Subsequently, the cells were hybridized with the RNA probes and subjected to fluorescence microscopy. Three different cells are shown. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0123387>), licensed under a CC-BY license. Image from the standard format of this antibody.



Immunocytochemistry/Immunofluorescence: TRF-2 Antibody (4A794.15) - Azide Free [NBP2-33212] - Localization of candidate RNAs at telomeres. Localization of SNORD17 at telomeres in human U-2 OS cells. Cells were fixed and sequentially incubated with Abs against TRF-2 and AlexaFluor 488-conjugated anti-mouse IgG. Subsequently, the cells were hybridized with the RNA probes and subjected to fluorescence microscopy. Three different cells are shown. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0123387>), licensed under a CC-BY license. Image from the standard format of this antibody.



Simple Western: TRF-2 Antibody (4A794.15) - Azide Free [NBP2-33212] - Image 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. Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody. Image from the standard format of this antibody.





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### **Products Related to NBP2-33212**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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