

**Datasheet for 200-301-I34****TRF2 Antibody****Overview**

|                      |                                                     |
|----------------------|-----------------------------------------------------|
| <b>Description:</b>  | Anti-TRF2 (MOUSE) Monoclonal Antibody - 200-301-I34 |
| <b>Item No.:</b>     | 200-301-I34                                         |
| <b>Size:</b>         | 100 µg                                              |
| <b>Applications:</b> | ChIP, ELISA, FC, IF, IHC, IP, WB                    |
| <b>Reactivity:</b>   | Human                                               |
| <b>Host Species:</b> | Mouse                                               |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | TRF2 antibody detects human, mouse, deer and rat TRF2. TRF2 is an 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 implicated 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. Anti TRF2 antibody is ideal for investigators involved in apoptosis and chromatin research. |
| <b>Synonyms:</b>     | TRBF2, TRF2, Telomeric repeat-binding factor 2, TTAGGG repeat-binding factor 2, Telomeric DNA-binding protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Host Species:</b> | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Clonality:</b>    | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Clone ID:</b>     | 4A794.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Format:</b>       | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

**Target Details**

|                        |                     |
|------------------------|---------------------|
| <b>Gene Name:</b>      | TERF2               |
| <b>Reactivity:</b>     | Human               |
| <b>Immunogen Type:</b> | Recombinant Protein |

|                            |                                                                                                                                                                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | TRF2 Antibody was produced in mice by repeated immunizations with a full-length TRF2 human protein.                                                                                                                                                                                                           |
| <b>Purity/Specificity:</b> | Anti-TRF2 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-TRF2 from Human, Mouse, Muntjac (deer), and rat based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-TRF2 from other sources has not been determined. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q15554</a></li><li>• <a href="#">NCBI - NP_005643</a></li><li>• <a href="#">GenelD - 7014</a></li></ul>                                                                                                                                       |

## Application Details

|                             |                                                                                                                                                                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | ChIP, ELISA, FC, IF, IHC, IP, WB                                                                                                                                                                                                     |
| <b>Application Note:</b>    | Anti-TRF2 Antibody is tested for use in WB, ChIP, ELISA, Flow, ICC/IF, IHC, IHC-Fr, IHC-P, and IP. Expect a band approximately 55.6 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                      |
| <b>ChIP:</b>                | User Optimized                                                                                                                                                                                                                       |
| <b>ELISA:</b>               | 2 µg/ml                                                                                                                                                                                                                              |
| <b>FC:</b>                  | User Optimized                                                                                                                                                                                                                       |
| <b>IF:</b>                  | User Optimized                                                                                                                                                                                                                       |
| <b>IHC:</b>                 | 5 µg/mL                                                                                                                                                                                                                              |
| <b>IP:</b>                  | 2 µg/10 <sup>6</sup> cells                                                                                                                                                                                                           |
| <b>WB:</b>                  | 2-4 µg/mL                                                                                                                                                                                                                            |

## Formulation

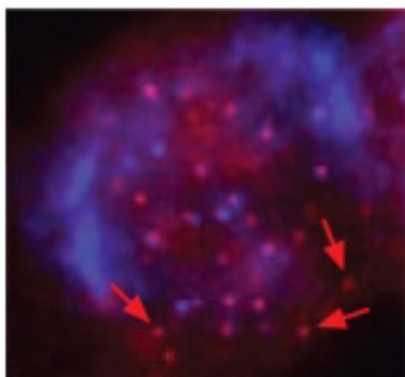
|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Physical State:</b> | Liquid                                                     |
| <b>Concentration:</b>  | 1.0 mg/mL by UV absorbance at 260 nm                       |
| <b>Buffer:</b>         | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.02% (w/v) Sodium Azide                                   |
| <b>Stabilizer:</b>     | None                                                       |

## Shipping & Handling

|                            |                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shipping Condition:</b> | Dry Ice                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage Condition:</b>  | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| <b>Expiration:</b>         | Expiration date is one (1) year from date of receipt.                                                                                                                                                                                                                                                                                         |

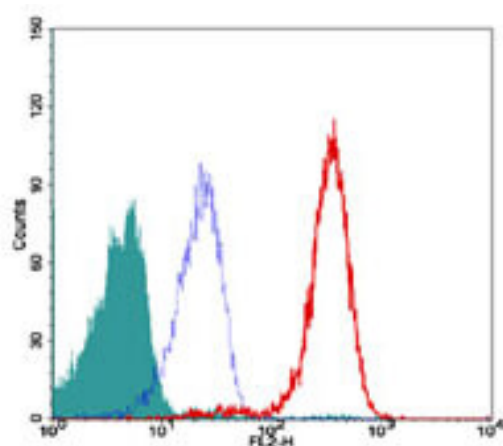
## Images

**TRF2**



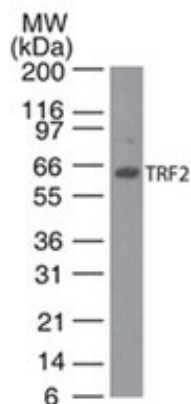
### Immunofluorescence Microscopy

Immunofluorescence Microscopy of Mouse Anti-TRF2 antibody. Tissue: human HeLa cells. Fixation: 3.8% PFA. Antigen retrieval: not required. Primary antibody: TRF2 antibody at 1:2000 for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TRF2-bound telomeres. Staining: TRF2 as red fluorescent signal.



### Flow Cytometry

Flow Cytometry of Mouse Anti-TRF2 antibody. Cells: human Jurkat. Stimulation: none. Primary Antibody: Anti-TRF2 antibody at 0.1 ug (red) and isotype control (blue). Secondary Antibody: anti-mouse IgG PE conjugated.

**Western Blot**

Western Blot of Mouse Anti-TRF2 antibody. Lane A: human Jurkat cell lysate. Primary antibody: TRF2 at 2 µg/mL overnight at 4°C. Secondary antibody: Goat anti-mouse Ig HRP conjugate antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for TRF2. Other band(s): none.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.