

Product Datasheet

RTEL1 Antibody - BSA Free

NBP2-22360

Unit Size: 0.1 ml

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

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NBP2-22360

RTEL1 Antibody - BSA Free

| Product Information | |
|---------------------|--|
| Unit Size | 0.1 ml |
| Concentration | 1.26 mg/ml |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG |
| Purity | Immunogen affinity purified |
| Buffer | PBS |

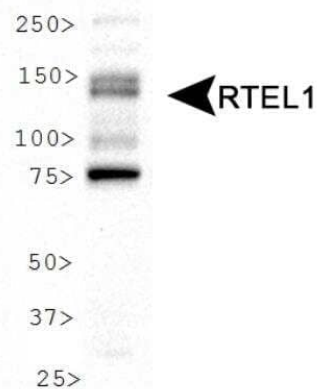
| Product Description | |
|---------------------|--|
| Description | Novus Biologicals Rabbit RTEL1 Antibody - BSA Free (NBP2-22360) is a polyclonal antibody validated for use in WB, ICC/IF and IP. Anti-RTEL1 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Rabbit |
| Gene ID | 51750 |
| Gene Symbol | RTEL1 |
| Species | Human, Mouse |
| Immunogen | A genomic peptide made to an internal region of the human RTEL1 protein (within residues 800-1000). [Swiss-Prot Q9NZ71] |

| Product Application Details | |
|-----------------------------|--|
| Applications | Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation |
| Recommended Dilutions | Western Blot 1:5000 - 1:10000, Immunocytochemistry/ Immunofluorescence 1:250 - 1:500, Immunoprecipitation |
| Application Notes | In Immunohistochemistry and ICC/IF nuclear staining was observed. Formulin fixation is recommended for ICC/IF. |

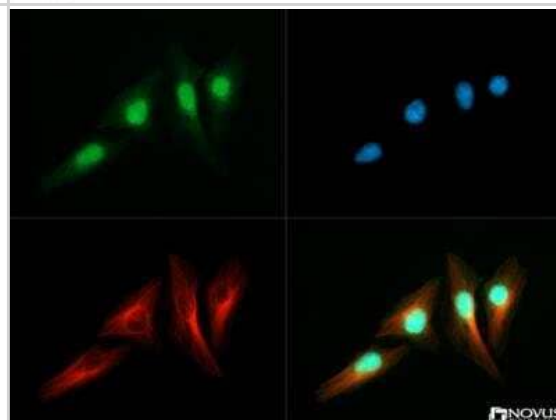


Images

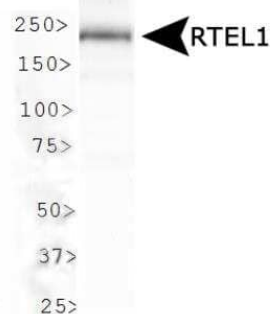
Western Blot: RTEL1 Antibody [NBP2-22360] - WB analysis of RTEL1 in HeLa cell lysate.



Immunocytochemistry/Immunofluorescence: RTEL1 Antibody [NBP2-22360] - RTEL1 antibody was tested in HeLa cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).



Western Blot: RTEL1 Antibody [NBP2-22360] - WB analysis of RTEL1 in mouse testis lysate.



Publications

Higa M, Matsuda Y, Fujii J et al. TRF2-mediated ORC recruitment underlies telomere stability upon DNA replication stress *Nucleic Acids Research* 2021-12-02 [PMID: 34761263] (Western Blot, Human)

Summers PA, Lewis B, Gonzalez-Garcia J, Lim AHM Visualising G-quadruplex DNA dynamics in live cells by fluorescence lifetime imaging microscopy *Nat Commun* 2021-01-09 [PMID: 33420085] (Western Blot, Human)

Krishnamoorthy A, Jackson J, Mohamed T et al. RADX prevents genome instability by confining replication fork reversal to stalled forks *Molecular cell* 2021-05-29 [PMID: 34107305] (Western Blot, Human)

Margalef P, Kotsantis P, Borel V et al. Stabilization of Reversed Replication Forks by Telomerase Drives Telomere Catastrophe. *Cell* 2017-12-27 [PMID: 29290468] (Western Blot, Human)

Sobinoff AP, Di Maro S, Low RRJ, Benedetti R et Al. Irreversible inhibition of TRF2(TRFH) recruiting functions by a covalent cyclic peptide induces telomeric replication stress in cancer cells *Cell Chem Biol* 2023-12-08 [PMID: 38065101]

Grzegorz Sarek, Panagiotis Kotsantis, Phil Ruis, David Van Ly, Pol Margalef, Valerie Borel, Xiao-Feng Zheng, Helen R. Flynn, Ambrosius P. Snijders, Dipanjan Chowdhury, Anthony J. Cesare, Simon J. Boulton CDK phosphorylation of TRF2 controls t-loop dynamics during the cell cycle *Nature* 2019-10-01 [PMID: 31723267]

Kotsantis P, Segura-Bayona S, Margalef P et al. RTEL1 Regulates G4/R-Loops to Avert Replication-Transcription Collisions *Cell reports* 2020-12-22 [PMID: 33357438] (WB, Mouse)

Chan, YWFugger, KWest, SC Unresolved recombination intermediates lead to ultra-fine anaphase bridges, chromosome breaks and aberrations *Nat. Cell Biol.* [PMID: 29255170] (WB, Human)



Procedures

Western Blot protocol for RTEL1 Antibody (NBP2-22360)

RTEL1 Antibody:

Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 25 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute anti-RTEL1 primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

Immunocytochemistry/Immunofluorescence protocol for RTEL1 Antibody (NBP2-22360)

RTEL1 Antibody:

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-22360

| | |
|-------------|---|
| NB800-PC1 | HeLa Whole Cell Lysate |
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP] |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |

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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