

Product Datasheet

TC21/R-Ras2 Antibody (2D3-4B8) - Azide and BSA Free H00022800-M01-100ug

Unit Size: 100 ug

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

www.novusbio.com



technical@novusbio.com

Publications: 5

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/H00022800-M01

Updated 9/9/2025 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/H00022800-M01



H00022800-M01-100ug

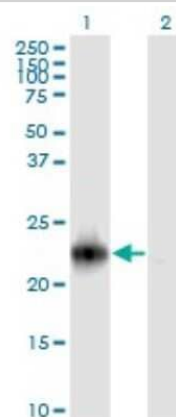
TC21/R-Ras2 Antibody (2D3-4B8) - Azide and BSA Free

| Product Information | |
|-----------------------------|---|
| Unit Size | 100 ug |
| Concentration | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | 2D3-4B8 |
| Preservative | No Preservative |
| Isotype | IgG1 Kappa |
| Purity | IgG purified |
| Buffer | In 1x PBS, pH 7.4 |
| Product Description | |
| Description | Novus Biologicals Mouse TC21/R-Ras2 Antibody (2D3-4B8) - Azide and BSA Free (H00022800-M01) is a monoclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-TC21/R-Ras2 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Mouse |
| Gene ID | 22800 |
| Gene Symbol | RRAS2 |
| Species | Human, Mouse, Rat |
| Specificity/Sensitivity | RRAS2 - related RAS viral (r-ras) oncogene homolog 2 |
| Immunogen | RRAS2 (AAH13106, 1 a.a. ~ 204 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MAAAGWRDGGSGQEKYRLVVVGGGGVGKSALTIQFIQSYFVTDYDPTIEDSYTK QCVIDDRAARLDILDTAGQEEFGAMREQYMRTGEGFLLVFSVTDRGSFEEIYKF QRQILRVKDRDEFPMILIGNKADLDHQRQVTQEEGQQLARQLKVITYMEASAKIR MNVDQAFHELVRVIRKFQEQECPPSPEPTRKEKDKKGCHCVIF |
| Notes | This product is produced by and distributed for Abnova, a company based in Taiwan. |
| Product Application Details | |
| Applications | Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockdown Validated |
| Recommended Dilutions | Western Blot 1:500, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Knockdown Validated |
| Application Notes | Antibody reactive against cell lysate and recombinant protein for Western Blot. Has also been used for immunofluorescence, immunohistochemistry (paraffin), and ELISA. |

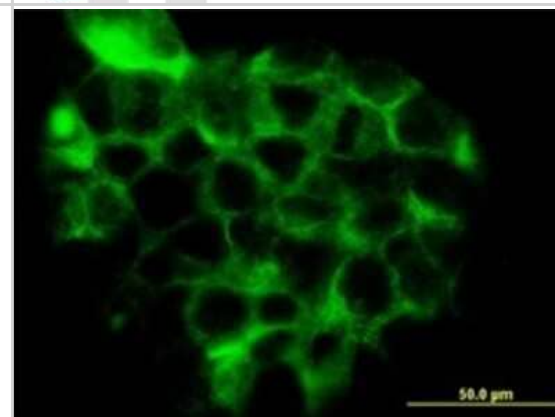


Images

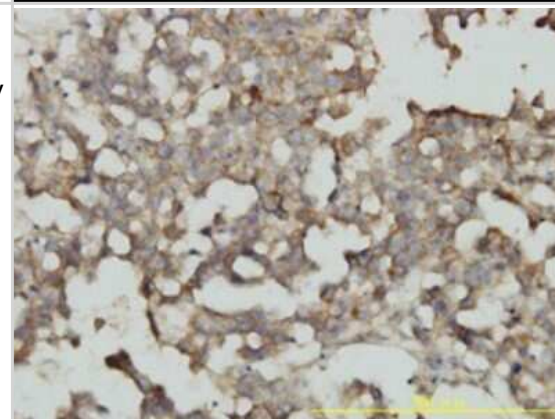
Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - Analysis of RRAS2 expression in transfected 293T cell line by RRAS2 monoclonal antibody (M01), clone 2D3-4B8. Lane 1: RRAS2 transfected lysate (Predicted MW: 23.4 KDa). Lane 2: Non-transfected lysate.



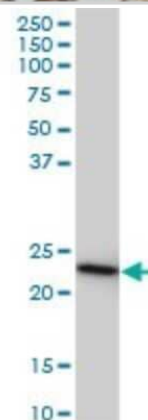
Immunocytochemistry/Immunofluorescence: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - Analysis of monoclonal antibody to RRAS2 on A-431 cell. Antibody concentration 10 ug/ml.



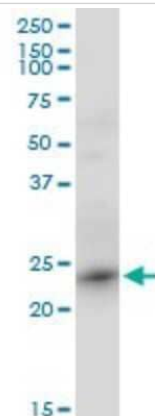
Immunohistochemistry-Paraffin: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - Analysis of monoclonal antibody to RRAS2 on formalin-fixed paraffin-embedded human dysgerminoma tissue. Antibody concentration 5 ug/ml.



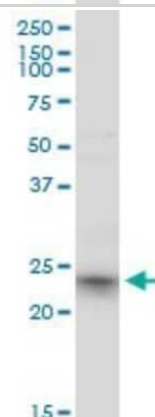
Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - RRAS2 monoclonal antibody (M01), clone 2D3-4B8. Analysis of RRAS2 expression in HeLa.



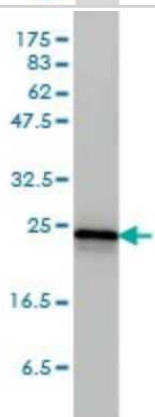
Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - RRAS2 monoclonal antibody (M01), clone 2D3-4B8. Analysis of RRAS2 expression in PC-12.



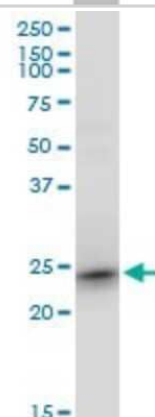
Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - RRAS2 monoclonal antibody (M01), clone 2D3-4B8. Analysis of RRAS2 expression in Raw 264.7.



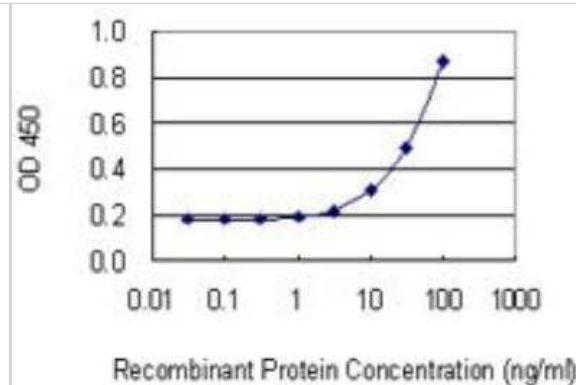
Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - RRAS2 monoclonal antibody (M01), clone 2D3-4B8. Analysis of RRAS2 expression in A-431.



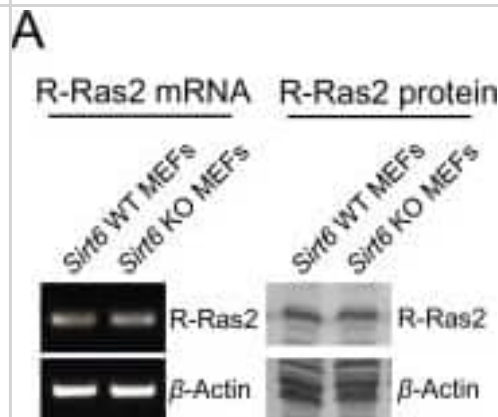
Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - RRAS2 monoclonal antibody (M01), clone 2D3-4B8. Analysis of RRAS2 expression in NIH/3T3.



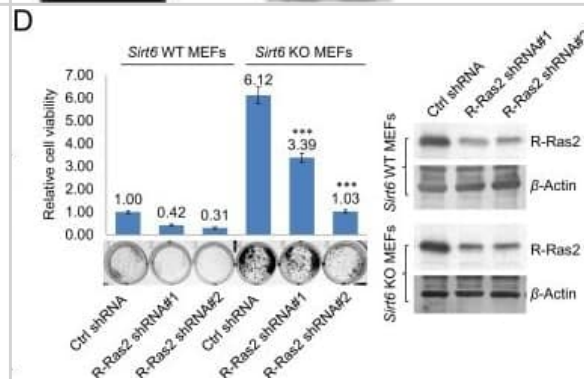
ELISA: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - Detection limit for recombinant GST tagged RRAS2 is 1 ng/ml as a capture antibody.



Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - Validation of R-Ras2 as the defatty-acylation target of SIRT6. (A) mRNA & protein levels of R-Ras2 in Sirt6 WT & KO MEFs. Image collected & cropped by CiteAb from the following publication (<https://elifesciences.org/articles/25158>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - Identification of defatty-acylation targets of SIRT6 that contribute to its function in cell proliferation. (A) Cell proliferation of Sirt6 KO MEFs stably expressing pCDH empty vector, SIRT6 WT, G60A, or H133Y. Cell proliferation was assayed & quantified using crystal violet staining. Values with error bars indicate mean \pm s.d. of three biological replicates. * indicates $p < 0.05$ & 'ns' indicates no statistical significance when comparing to Sirt6 KO MEFs with pCDH. (B) Schematic overview of the SILAC experiment to identify SIRT6 lysine defatty-acylation targets. (C) Data analysis & filter of SILAC results. (D) Effects of R-Ras2 knockdown on the proliferation of Sirt6 WT & KO MEFs. Values with error bars indicate mean \pm s.d. of three biological replicates. *** indicates $p < 0.005$ for comparing to Sirt6 KO MEFs with ctrl shRNA. DOI:<http://dx.doi.org/10.7554/eLife.25158.003> Schematic overview of the SILAC experiment to compare the protein abundance in Sirt6 WT & KO MEFs. DOI:<http://dx.doi.org/10.7554/eLife.25158.004> Image collected & cropped by CiteAb from the following publication (<https://elifesciences.org/articles/25158>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Zhang X, Spiegelman NA, Nelson OD et al. SIRT6 regulates Ras-related protein R-Ras2 by lysine defatty-acylation eLife 2017-04-13 [PMID: 28406396]

Alejandro H, Clara O, Claudia C et al. Overexpression of wild type RRAS2, without oncogenic mutations, drives chronic lymphocytic leukemia. Mol Cancer. 2022-02-04 [PMID: 35120522]

Sophia L, Jeremy W, Xi C et al. High-efficiency unassisted transfection of platelets with naked double-stranded miRNAs modulates signal-activated translation and platelet function. Platelets. 2020-08-25 [PMID: 32838617]

Janapati S, Wurtzel J, Dangelmaier C et al. TC21/RRas2 regulates GPVI-FcR γ -mediated platelet activation and thrombus stability. J Thromb Haemost 2018-06-08 [PMID: 29883056]

Patmore DM, Welch S, Fulkerson PC et al. In Vivo Regulation of TGF- β by R-Ras2 Revealed through Loss of the RasGAP Protein NF1. Cancer Res. 2012-08-23 [PMID: 22918885]





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 H00022800-M01-100ug

| | |
|------------------|---|
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB720-B | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-43319-0.5mg | Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) |
| NBP1-30244 | Recombinant Human TC21/R-Ras2 His Protein |

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/H00022800-M01

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

