

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.

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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

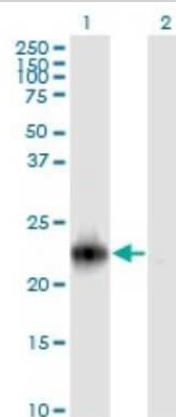
Product Description	
Description	Novus Biologicals Mouse TC21/R-Ras2 Antibody (2D3-4B8) - Azide and BSA Free (H00022800-M01) is a monoclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-TC21/R-Ras2 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 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. MAAAGWRDGGSGQEKYRLVVVGGGGVGGKSAITIQFIQSYFVTDYDPTIEDSYTK QCVIDDRAARLDILDITAGQEEFGAMREQYMRTGEGFLLVFSVTDGRGSFEEIYKF QRQILRVKDRDEFPMILIGNKADLDHQRQVTQEEGQQLARQLKVTYMEASAKIR MNVDQAFHELVRVIRKFEQECPPSPEPTRKEKDKKGGCHCVIF
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.

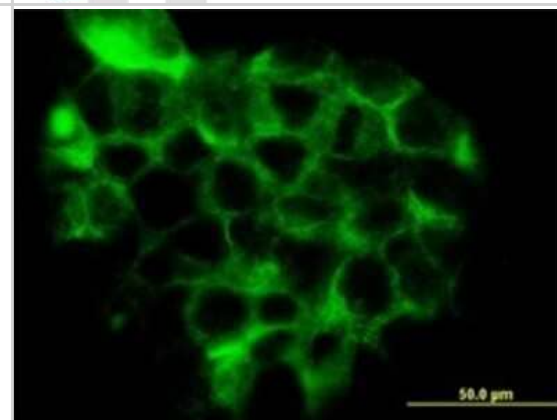


Images

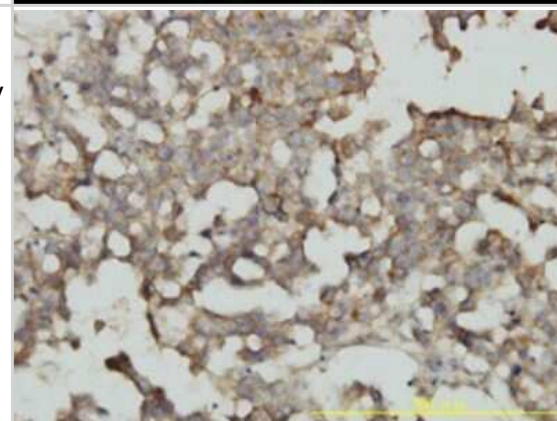
Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - Analysis of RRAS2 expression in transfected 293T cell line by RRAS2 monoclonal antibody (M01), clone 2D3-4B8. Lane 1: RRAS2 transfected lysate (Predicted MW: 23.4 KDa). Lane 2: Non-transfected lysate.



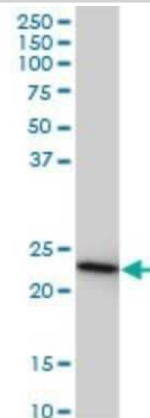
Immunocytochemistry/Immunofluorescence: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - Analysis of monoclonal antibody to RRAS2 on A-431 cell. Antibody concentration 10 ug/ml.



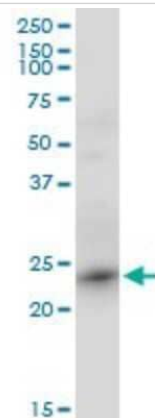
Immunohistochemistry-Paraffin: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - Analysis of monoclonal antibody to RRAS2 on formalin-fixed paraffin-embedded human dysgerminoma tissue. Antibody concentration 5 ug/ml.



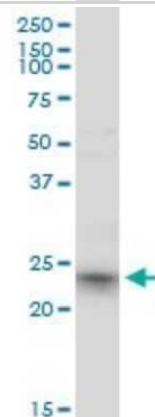
Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - RRAS2 monoclonal antibody (M01), clone 2D3-4B8. Analysis of RRAS2 expression in HeLa.



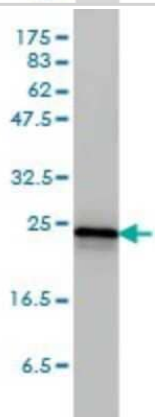
Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - RRAS2 monoclonal antibody (M01), clone 2D3-4B8. Analysis of RRAS2 expression in PC-12.



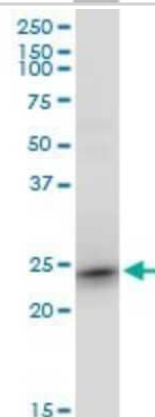
Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - RRAS2 monoclonal antibody (M01), clone 2D3-4B8. Analysis of RRAS2 expression in Raw 264.7.



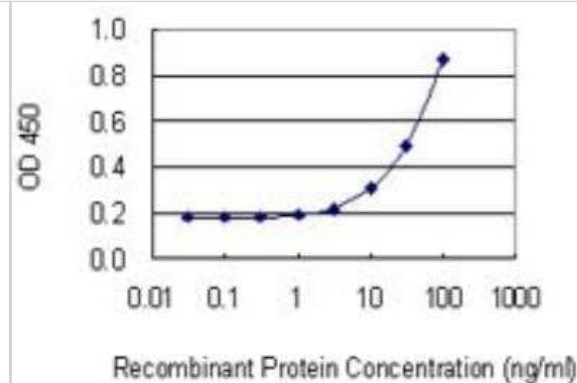
Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - RRAS2 monoclonal antibody (M01), clone 2D3-4B8. Analysis of RRAS2 expression in A-431.



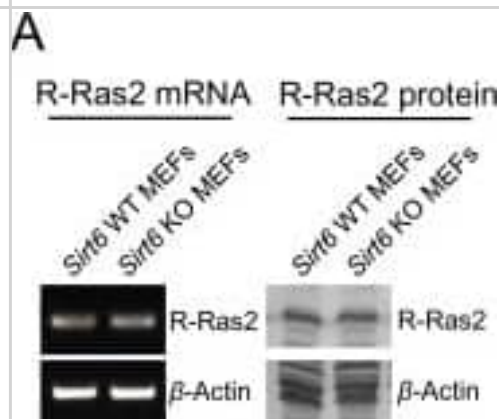
Western Blot: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - RRAS2 monoclonal antibody (M01), clone 2D3-4B8. Analysis of RRAS2 expression in NIH/3T3.



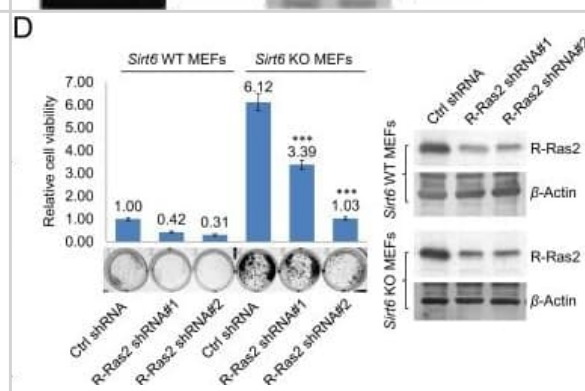
ELISA: TC21/R-Ras2 Antibody (2D3-4B8) [H00022800-M01] - Detection limit for recombinant GST tagged RRAS2 is 1 ng/ml as a capture antibody.



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]





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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)

Limitations

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