Product Datasheet

RhoA Antibody
NB100-91273

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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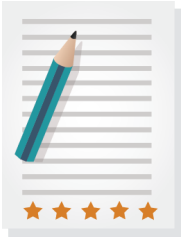
Reviews: 1 Publications: 6

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-91273

Updated 9/9/2025 v.20.1



NB100-91273

RhoA Antibody

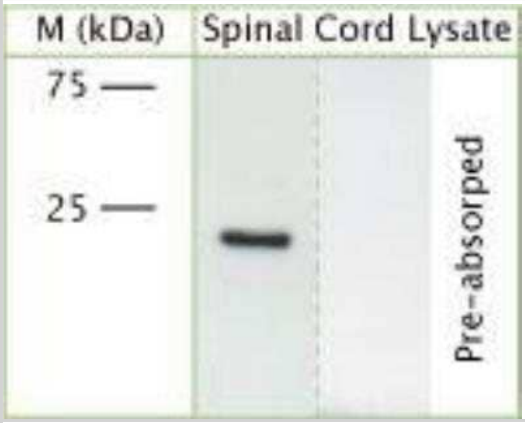
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Reconstitute in 0.1 ml of sterile water. Centrifuge to remove any insoluble material. Glycerol may be added (1:1) for additional stability. Please note the sample size is provided in reconstituted format.
Isotype	IgG
Purity	Unpurified
Buffer	Lyophilized from whole antisera
Target Molecular Weight	22 kDa

Product Description	
Description	Novus Biologicals Rabbit RhoA Antibody (NB100-91273) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-RhoA Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	387
Gene Symbol	RHOA
Species	Human, Mouse, Rat, Primate
Reactivity Notes	Marmoset
Immunogen	A synthetic peptide from amino acid region 100-150 of human RhoA conjugated to blue carrier protein was used as the antigen. The peptide is homologous in many species including rat, mouse, chicken, dog, bovine, frog, zebrafish and orangutan.

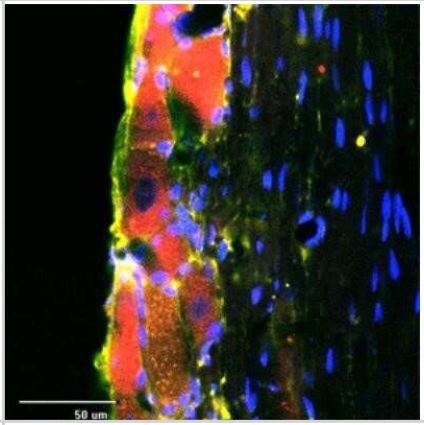
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:500, Immunohistochemistry-Paraffin 1:1000

Images

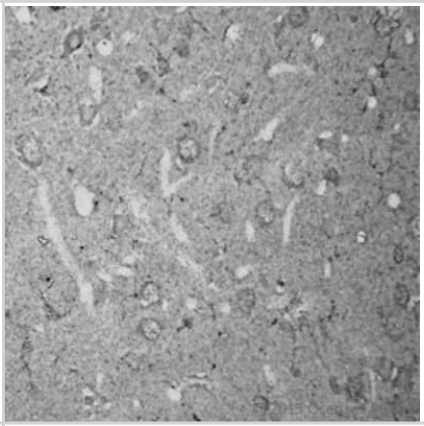
Western Blot: RhoA Antibody [NB100-91273] - Rat spinal cord lysate using Rabbit antibody to Transforming protein RhoA: whole serum at 1:2000 dilution. One single band is detected.



Immunocytochemistry/Immunofluorescence: RhoA Antibody [NB100-91273] - Rat trigeminal at 1:500 dilution using Rabbit antibody to Transforming protein RhoA: whole serum (NB100-91273, in red), Sheep antibody to extracellular, N-terminal part of Sortilin: whole serum (NB100 -98771, in green), DAPI counter stained appearing in blue.



Immunohistochemistry: RhoA Antibody [NB100-91273] - IHC on rat brain (paraffin sections) using Rabbit antibody to RhoA at a concentration of 15 ug/ml, incubated overnight and developed with DAB Ni.



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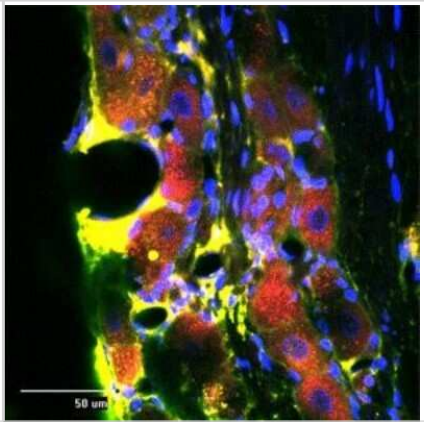
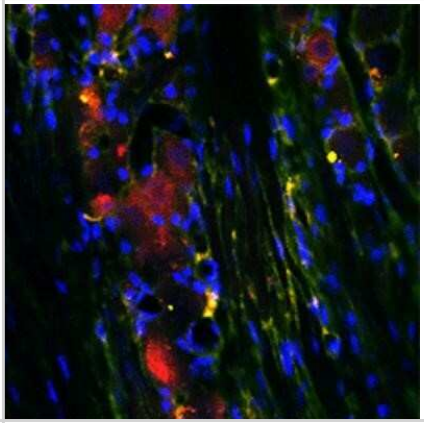
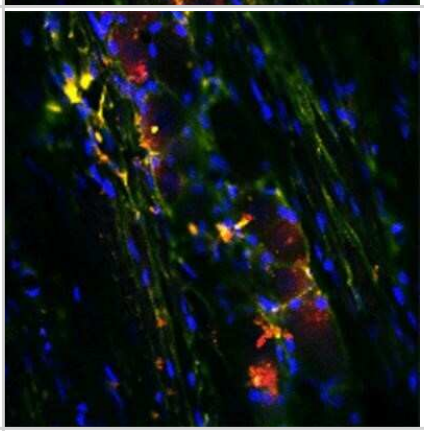
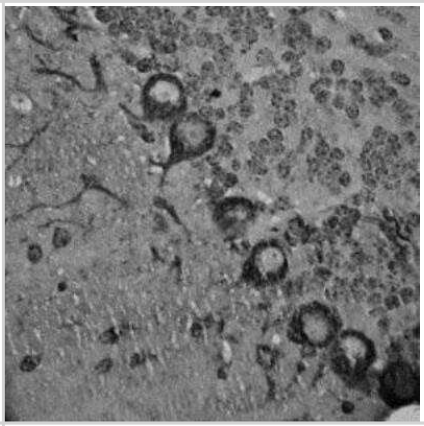
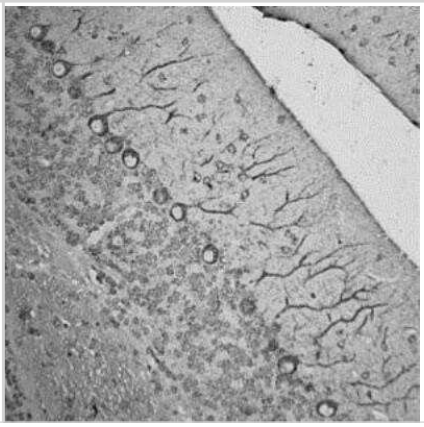
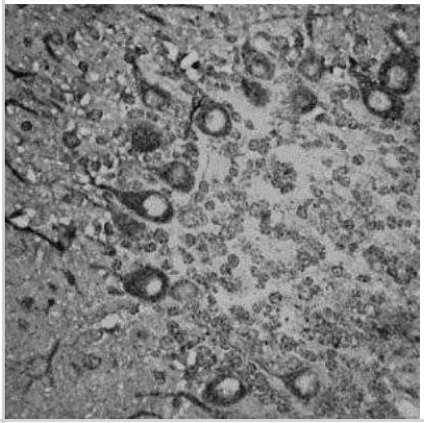
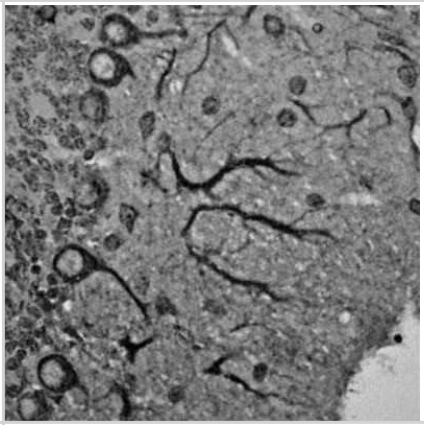
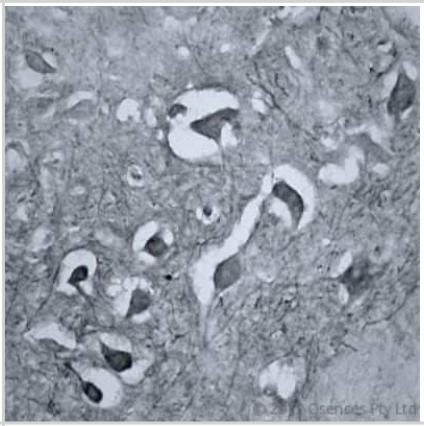
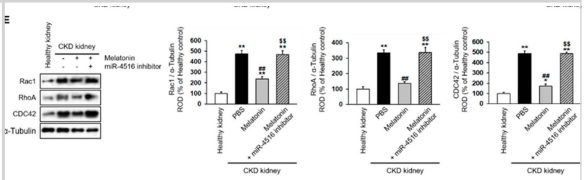
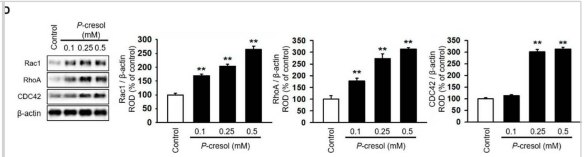


Immunocytochemistry/Immunofluorescence: RhoA Antibody [NB100-91273] - Rat trigeminal at 1:500 dilution using Rabbit antibody to Transforming protein RhoA: whole serum (NB100-91273, in red), Sheep antibody to extracellular, N-terminal part of Sortilin: whole serum (NB100-98771, in green), DAPI counter stained appearing in blue.	
Immunocytochemistry/Immunofluorescence: RhoA Antibody [NB100-91273] - Rat trigeminal at 1:500 dilution using Rabbit antibody to Transforming protein RhoA: whole serum (NB100-91273, in red), Sheep antibody to extracellular, N-terminal part of Sortilin: whole serum (NB100-98771, in green), DAPI counter stained appearing in blue.	
Immunohistochemistry-Paraffin: RhoA Antibody [NB100-91273] - Rat brain (paraffin section) using Rabbit antibody to Transforming protein RhoA (Arha, Arha2): whole serum at 1 : 300 dilution incubated overnight at 4C and developed with ABC/DAB/Ni.	
Immunohistochemistry-Paraffin: RhoA Antibody [NB100-91273] - Rat brain (paraffin section) using Rabbit antibody to Transforming protein RhoA (Arha, Arha2): whole serum at 1 : 300 dilution incubated overnight at 4C and developed with ABC/DAB/Ni.	

Immunohistochemistry-Paraffin: RhoA Antibody [NB100-91273] - Rat brain (paraffin section) using Rabbit antibody to Transforming protein RhoA (Arha, Arha2): whole serum at 1 : 300 dilution incubated overnight at 4C and developed with ABC/DAB/Ni.	
Immunohistochemistry-Paraffin: RhoA Antibody [NB100-91273] - IHC on rat brain (paraffin section) using Rabbit antibody to Transforming protein RhoA (Arha, Arha2): whole serum at 1 : 300 dilution incubated overnight at 4C and developed with ABC/DAB/Ni.	
Immunohistochemistry-Paraffin: RhoA Antibody [NB100-91273] - IHC on mouse brain (cryo section) using Rabbit antibody to RhoA at a concentration of 15 ug/ml, incubated overnight and developed with DAB Ni.	
Melatonin injection restores renal cortical fibrosis in a CKD mouse model via increased expression of miR-4516. (A) Hematoxylin and eosin (H&E) staining was performed on kidney sections from a CKD mouse model following melatonin injection, or melatonin inhibition with miR-4516 inhibitor (scale bar = 1000 μm). (B,C) Expression of miR-4516 and ITGA9 was detected in the kidney cortex in each group by qPCR (n = 3). (D–F) Western blot analysis for ITGA9, Rac1, RhoA, CDC42, collagen type 1, and fibronectin expression using samples from the kidney cortex of each mouse model group (n = 3). Protein levels were determined by densitometry relative to α-tubulin. The values represent mean +/- SEM. * p < 0.05, ** p < 0.01 vs. healthy kidney, ##p < 0.01 vs. phosphate buffered saline (PBS), $$p < 0.01 vs. melatonin. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/32727098), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Cytoskeleton reorganization and ITGA9-Rho GTPase signaling pathways are activated due to decreased miR-4516 expression following P-cresol exposure. (A,B) Expression of miR-4516 and ITGA9 was detected in human proximal tubular epithelial (TH1) cells with P-cresol (0.1, 0.25, and 0.5 mM) or indoxyl sulfate (0.2, 0.4, and 0.8 mM) exposure for 72 h (n = 3). The values represent mean +/- SEM. * p < 0.05, ** p < 0.01 vs. control. (C,D) Western blot analysis for ITGA9, Rac1, RhoA, and CDC42 in TH1 cells after exposure to various doses of P-cresol (0, 0.1, 0.25, and 0.5 mM) for 72 h (n = 3). Protein expression was determined by densitometry relative to β-actin. The values represent mean +/- SEM. ** p < 0.01 vs. control. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/32727098), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Moon GT, Lee JH, Jeong SH et al. NecroX-5 Can Suppress Melanoma Metastasis by Reducing the Expression of Rho-Family GTPases Journal of Clinical Medicine 2021-06-25 [PMID: 34201921] (Immunohistochemistry-Paraffin, Rat)

Y Guo, X Lu, Y Chen, G Clark, J Trent, M Cuatrecasa, D Emery, ZH Song, J Chariker, E Rouchka, A Postigo, Y Liu, DC Dean Opposing roles of ZEB1 in the cytoplasm and nucleus control cytoskeletal assembly and YAP1 activity Cell Reports, 2022-10-04;41(1):111452. 2022-10-04 [PMID: 36198275]

Yoon, Y M, Go, G Et al. Melatonin Suppresses Renal Cortical Fibrosis by Inhibiting Cytoskeleton Reorganization and Mitochondrial Dysfunction through Regulation of miR-4516. Int J Mol Sci 2020-07-27 [PMID: 32727098] (WB, Mouse)

Costa V, Carina V, Conigliaro A et al. miR-31-5p Is a LIPUS-Mechanosensitive MicroRNA that Targets HIF-1 alpha Signaling and Cytoskeletal Proteins Int J Mol Sci. 2019-03-27 [PMID: 30925808] (WB, Human)

Turnham RE, Smith FD, Kenerson HL et al. Elevated BMP and mechanical signaling through YAP1/RhoA Poises FOP Mesenchymal Progenitors for Osteogenesis J. Bone Miner. Res. 2019-05-20 [PMID: 31107558]

Aktas S, Un I, Omer Barlas I et al. Evaluation of the Rho A/Rho-kinase pathway in the uterus of the rat model of polycystic ovary syndrome. Reprod Biol 2019-01-28 [PMID: 30704840] (IHC-P, Rat)

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Products Related to NB100-91273

NBL1-15349	RhoA Overexpression 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

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