

Product Datasheet

RhoA Antibody (1A11-4G10)

NBP2-22528

Unit Size: 100ug

Store at -20C. Avoid freeze-thaw cycles.

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NBP2-22528**RhoA Antibody (1A11-4G10)**

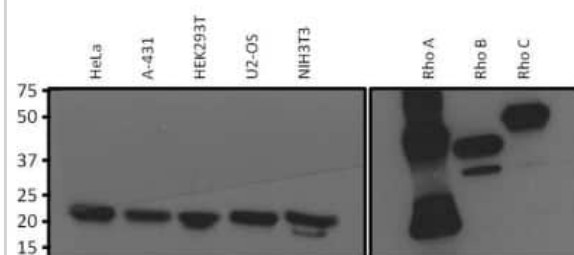
Product Information	
Unit Size	100ug
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1A11-4G10
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS with 1 mg/ml BSA and 30% glycerol

Product Description	
Description	Novus Biologicals Mouse RhoA Antibody (1A11-4G10) (NBP2-22528) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-RhoA Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	387
Gene Symbol	RHOA
Species	Human, Mouse, Rat
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Immunogen	Full-length recombinant human Rho A

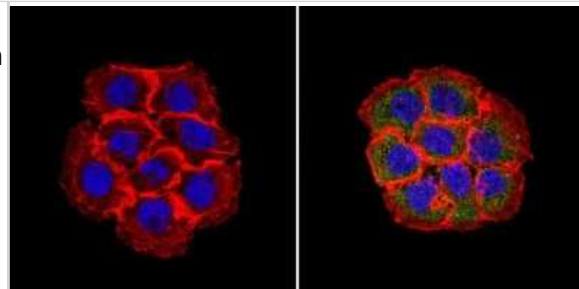
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500 - 1:1500, Immunohistochemistry 1:20 - 1:200, Immunocytochemistry/ Immunofluorescence 1:10 - 1:200, Immunoprecipitation 2 ug, Immunohistochemistry-Paraffin 1:20 - 1:200

Images

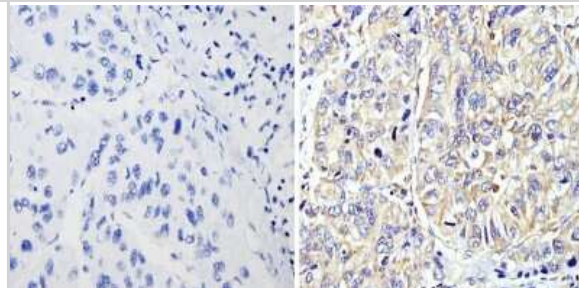
Western Blot: RhoA Antibody (1A11-4G10) [NBP2-22528] - Analysis of 25 ug of various whole cell lysates or 0.5 ug of purified protein (full-length His-RhoA, truncated GST-RhoB or full-length GST-RhoC fusion) per well onto a 4-20% Tris-HCl polyacrylamide gel.



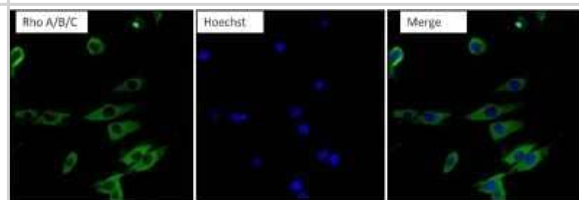
Immunocytochemistry/Immunofluorescence: RhoA Antibody (1A11-4G10) [NBP2-22528] - Analysis of Rho A/B/C (green) showing staining in the in the cytoplasm of A431 cells (right) compared to a negative control without primary antibody (left).



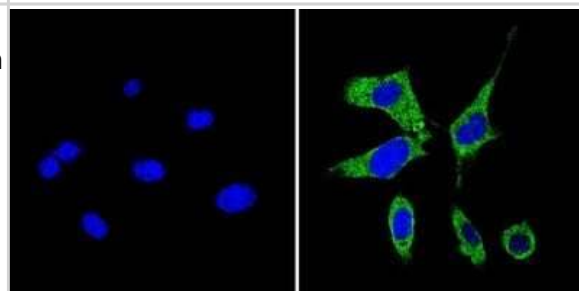
Immunohistochemistry-Paraffin: RhoA Antibody (1A11-4G10) [NBP2-22528] - Analysis showing staining in the cytoplasm of human hepatocarcinoma (right) compared with a negative control without primary antibody (left).



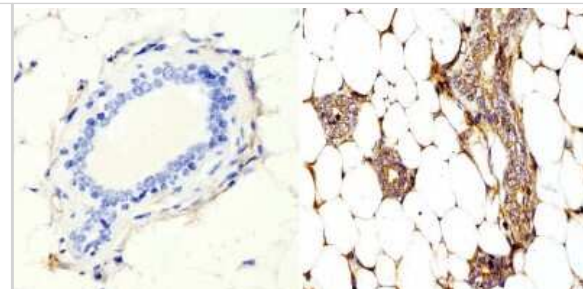
Immunocytochemistry/Immunofluorescence: RhoA Antibody (1A11-4G10) [NBP2-22528] - Analysis of RhoA/B/C (green) in NIH3T3 cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% BSA/TBST for 15 minutes at room temperature. Cells were probed with a RhoA/B/C monoclonal antibody at a dilution of 1:100 for at least 1 hour at room temperature, washed with PBS, and incubated with DyLight 488-conjugated goat-anti-mouse IgG secondary antibody at a dilution of 1:400 for 30 minutes at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye.



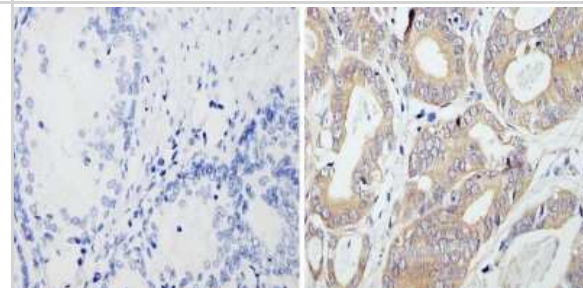
Immunocytochemistry/Immunofluorescence: RhoA Antibody (1A11-4G10) [NBP2-22528] - Analysis of Rho A/B/C (green) showing staining in the in the cytoplasm of NIH-3T3 cells (right) compared to a negative control without primary antibody (left).



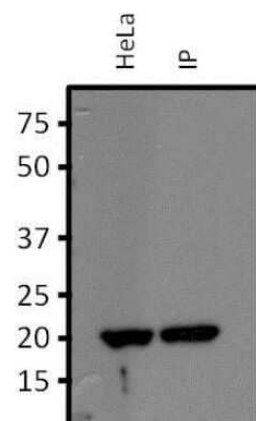
Immunohistochemistry-Paraffin: RhoA Antibody (1A11-4G10) [NBP2-22528] - Analysis of showing staining in the cytoplasm of mouse breast tissue (right) compared with a negative control without primary antibody (left).



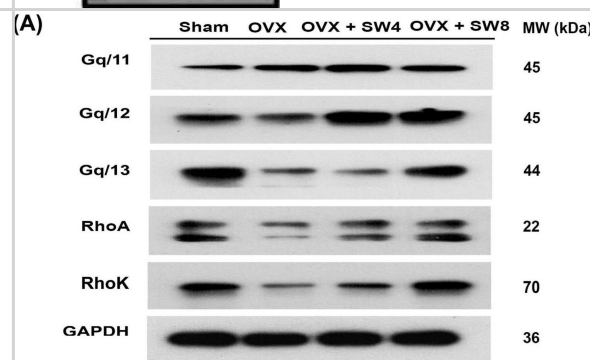
Immunohistochemistry-Paraffin: RhoA Antibody (1A11-4G10) [NBP2-22528] - Analysis showing staining in the cytoplasm of human prostate carcinoma (right) compared with a negative control without primary antibody (left).



Immunoprecipitation: RhoA Antibody (1A11-4G10) [NBP2-22528] - Analysis of RhoA/B/C was performed on HeLa cells. Antigen-antibody complexes were formed by incubating 750 ug of HeLa cell lysate with 2 ug of a RhoA/B/C monoclonal antibody overnight on a rocking platform at 4C. The immune complexes were captured on 50 ul Protein A/G Plus Agarose, washed extensively, and eluted with 5X Lane Marker Reducing Sample Buffer. Eluted sample (right lane) and 25 ug of HeLa cell lysate (left lane) were resolved on a 4-20% Tris-HCl polyacrylamide gel, transferred to a PVDF membrane, and blocked with 5% BSA/TBS-0.1%Tween for at least 1 hour. The membrane was probed with a Rho A/B/C monoclonal antibody at a dilution of 1:1000 overnight rotating at 4C, washed in TBST, and probed with Clean-blot IP Detection Reagent at a dilution of 1:2500 for at least 1 hour.



The cellular signaling pathway involved in regulating intracellular Ca²⁺ oscillation in a rat model of OHD-induced DHIC. The expressions of signaling-pathway-related proteins, including Gq/11, Gq/12, Gq/13, RhoA, and RhoK, were quantified by Western blots (A). In the OVX group, the protein expression levels were reduced compared with the sham group. The LiESWT treatment significantly promoted the protein levels in the OVX + SW4 group and the OVX + SW8 group in comparison with the OVX group. DHIC, detrusor hyperactivity with impaired contractility. Data are expressed as the means +/- SD for n = 8. * p < 0.05 and ** p < 0.01 versus the sham group; # p < 0.05 and ## p < 0.01 versus the OVX group; † p < 0.05 and †† p < 0.01 versus the OVX + SW4 group (B). Image collected and cropped by CiteAb from the following open publication (<https://www.mdpi.com/1422-0067/25/9/4927>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Chueh, KS;Juan, TJ;Lu, JH;Wu, BN;Lin, RJ;Mao, JW;Lin, HY;Chuang, SM;Chang, CY;Shen, MC;Sun, TW;Juan, YS; Low-Intensity Extracorporeal Shock Wave Therapy Ameliorates Detrusor Hyperactivity with Impaired Contractility via Transient Potential Vanilloid Channels: A Rat Model for Ovarian Hormone Deficiency International journal of molecular sciences 2024-04-30 [PMID: 38732143]

Hosseini K, Frenzel A, Fischer-Friedrich E EMT induces characteristic changes of Rho GTPases and downstream effectors with a mitosis-specific twist Physical biology 2023-09-12 [PMID: 37652025] (ICC/IF, Human)

Guo Y, Lu X, Chen Y et al. Opposing roles of ZEB1 in the cytoplasm and nucleus control cytoskeletal assembly and YAP1 activity Cell reports 2022-10-04 [PMID: 36198275]





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Products Related to NBP2-22528

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]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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