

Product Datasheet

gp96/HSP90B1/GRP94 Antibody (9G10) NB300-619

Unit Size: 100uL

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

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NB300-619

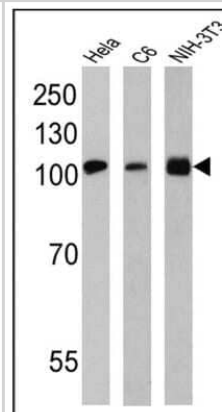
gp96/HSP90B1/GRP94 Antibody (9G10)

Product Information	
Unit Size	100uL
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	9G10
Preservative	0.05% Sodium Azide
Isotype	IgG2a
Purity	Unpurified
Buffer	Ascites
Product Description	
Description	Novus Biologicals Rat gp96/HSP90B1/GRP94 Antibody (9G10) (NB300-619) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-gp96/HSP90B1/GRP94 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rat
Gene ID	7184
Gene Symbol	HSP90B1
Species	Human, Mouse, Rat, Bovine, Chicken, Hamster
Marker	ER Stress Marker
Specificity/Sensitivity	GRP94 (9G10)
Immunogen	Chick oviduct GRP94.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Immunocytochemistry
Recommended Dilutions	Western Blot 1:100 - 1:1000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 1:250, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:20, Immunocytochemistry
Application Notes	WB: Detects an approx. 108 kDa protein representing GRP94 in chick oviduct cytosol.

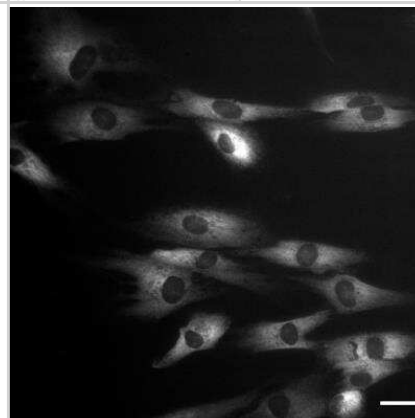


Images

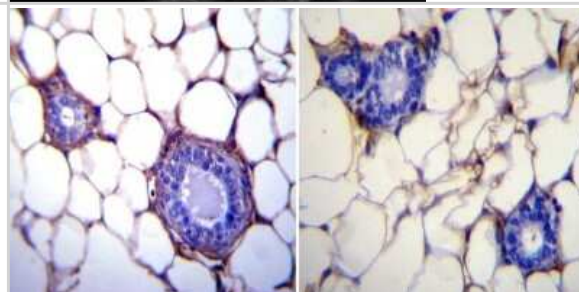
Western Blot: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Analysis of 25 ug of HeLa (lane 1), C6 (lane 2) and NIH-3T3 (lane 3) lysates.



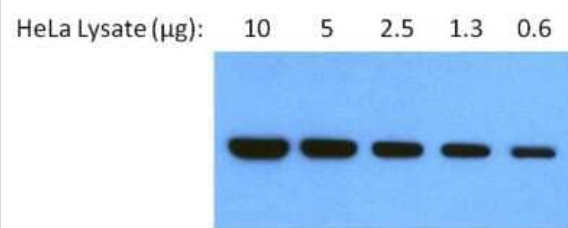
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - GR94 in human primary fibroblasts, ER staining. Primary antibody incubation: 1:250 in 10% Serum in PBST (0.1% Triton) O/N 4C. Secondary: Donkey anti-rat 647 1:500 2h RT. ICC/IF image submitted by a verified customer review.



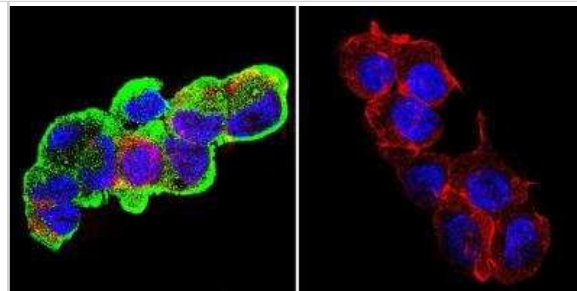
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Normal biopsies of deparaffinized Mouse breast tissue.



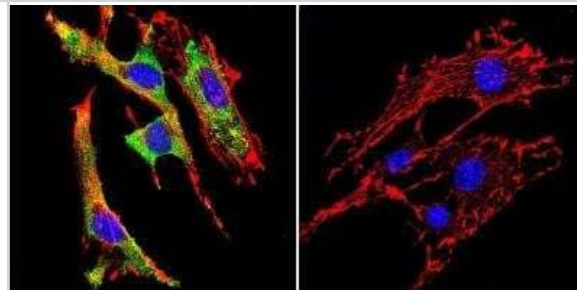
Western Blot: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Analysis of 2-fold serial dilutions of HeLa cell lysate, starting at 10 ug, per well.



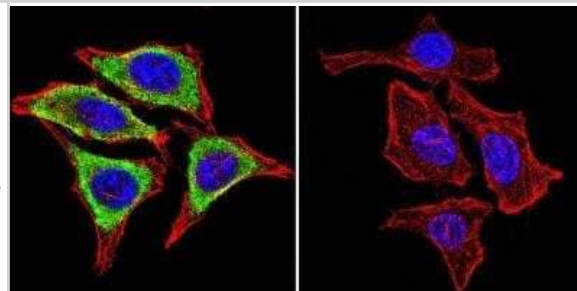
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Analysis of Glucose-Regulated Protein 94 using Glucose-Regulated Protein 94 Monoclonal Antibody (9G10) shows staining in C6 Cells. Glucose-Regulated Protein 94 (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing Glucose-Regulated Protein 94 at a dilution of 1:100 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



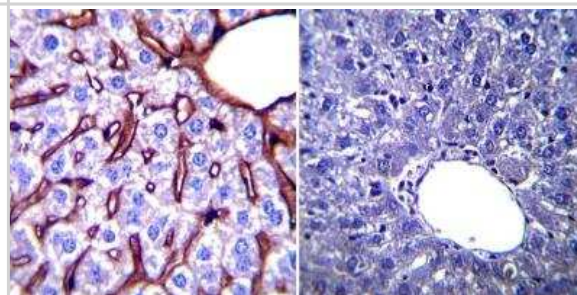
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Analysis of Glucose-Regulated Protein 94 using Glucose-Regulated Protein 94 Monoclonal Antibody (9G10) shows staining in Hela Cells. Glucose-Regulated Protein 94 (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing Glucose-Regulated Protein 94 at a dilution of 1:100 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



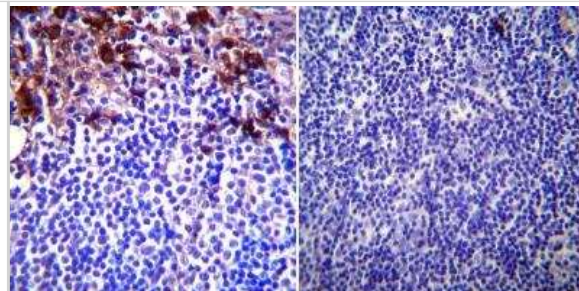
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Analysis of Glucose-Regulated Protein 94 using Glucose-Regulated Protein 94 Monoclonal Antibody (9G10) shows staining in NIH-3T3 Cells. Glucose-Regulated Protein 94 (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with an antibody recognizing Glucose-Regulated Protein 94 at a dilution of 1:20 over night at 4C, washed with PBS and incubated with a DyLight-488 conjugated.



Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Normal biopsies of deparaffinized Mouse liver tissue.



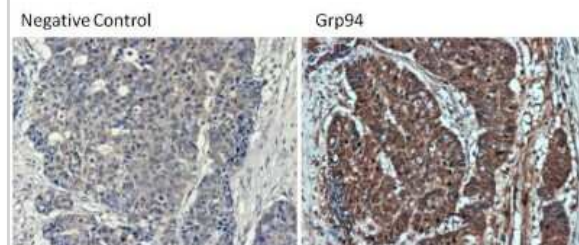
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Normal biopsies of deparaffinized Mouse lymph node.



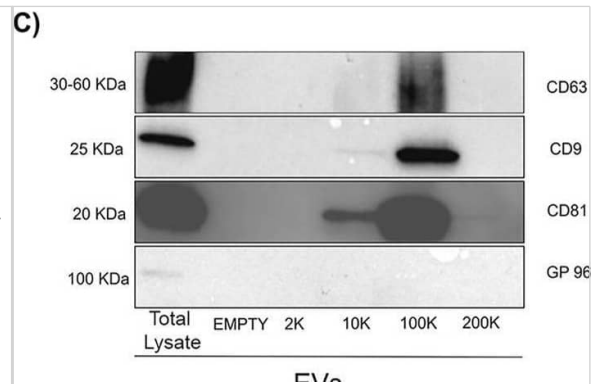
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Analysis of Glucose-Regulated Protein 94 (Grp94) in U2OS cells. Cells fixed with 4% paraformaldehyde were permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature and blocked with 2% BSA in PBST (from Product # 37525) for 30 minutes at room temperature. Cells were treated with Peroxidase Suppressor, probed with a Grp94 monoclonal antibody at a dilution of 1:100 for at least 1 hour at room temperature, washed with PBST, and incubated with an HRP-conjugated goat anti-rat IgG (H+L) secondary antibody at a dilution of 1:1000 for 30 minutes at room temperature. Chromogenic detection was performed using Metal Enhanced DAB Substrate Kit.



Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Staining on poorly differentiated adenocarcinoma from paraffin-embedded human colon tissue sections.



Isolation and characterization of EVs. (A) Schematic representation of the ultracentrifugation protocol employed to isolate distinct EVs subpopulations. The pellets collected at 2K, 10K, 100K, and 200 K were sequentially washed in PBS at the respective centrifugation speeds and resuspended to a concentration of 1 million cells per uL. Image generated using BioRender.com. (B) Diagram of the SEC method used for EVs isolation. A total of 25, 0.5 mL fractions were collected for further analysis. Image generated using BioRender.com. (C) Western blot analysis showing the expression of common EVs surface markers—CD63, CD9, and CD81—confirms EVs' presence. The absence of gp96 in the EVs lanes indicates minimal contamination from other cellular components. The total cellular homogenate was used as a control. (D) Dot blot analysis of the 25 fractions obtained from SEC, probing for CD63 to identify fractions containing EVs. Fractions containing EVs are boxed and numbered accordingly. (E) EVs morphology analysis by TEM. EVs display a typical cup-shaped appearance, consistent with the preparation process and negative staining. The scale bar is 50 nm. (F) NTA results depict the concentration and size distribution of EVs recovered by SEC, with a particle size range consistent with extracellular vesicles. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/40567500>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Giroud, J;Delvaux, P;Carlier, L;De Schutter, C;Martin, N;Rouget, R;Bolouki, A;De Glas, V;Bouriez, I;Bourdoux, F;Burteau, S;Théry, J;Decanter, G;Penel, N;de Launoit, Y;Ledoux, B;Abbadie, C;Poumay, Y;Pluquet, O;Debacq-Chainiaux, F; Targeting ATF6? Attenuates UVB-Induced Senescence and Improves Skin Homeostasis by Regulating IL8 Expression Aging cell 2025-04-16 [PMID: 40241256]

Rodriguez-Baili M, Palma-Cobo M, Prucca C et al. Intercellular communication between extracellular vesicles from conditioned macrophages and breast cancer cells drives endocrine therapy resistance Frontiers in Cell and Developmental Biology 2025-06-03 [PMID: 40567500]

Xiaozhen Zhang, Mengyi Lao, Hanshen Yang, Kang Sun, Yunfei Dong, Lihong He, Xinchu Jiang, Honghui Wu, Yangwei Jiang, Muchun Li, Honggang Ying, Xinyuan Liu, Jian Xu, Yan Chen, Hanjia Zhang, Ruhong Zhou, Jianqing Gao, Xueli Bai, Tingbo Liang Targeting cancer-associated fibroblast autophagy renders pancreatic cancer eradicable with immunotherapy by inhibiting adaptive immune resistance Autophagy 2024-01-04 [PMID: 38174993]

Chou CW, Yang RY, Chan LC et al. The stabilization of PD-L1 by the endoplasmic reticulum stress protein GRP78 in triple-negative breast cancer American journal of cancer research 2020-08-01 [PMID: 32905506]

LC Chan, CW Li, W Xia, JM Hsu, HH Lee, JH Cha, HL Wang, WH Yang, EY Yen, WC Chang, Z Zha, SO Lim, YJ Lai, C Liu, J Liu, Q Dong, Y Yang, L Sun, Y Wei, L Nie, JL Hsu, H Li, Q Ye, MM Hassan, HM Amin, AO Kaseb, X Lin, SC Wang, MC Hung IL-6/JAK1 pathway drives PD-L1 Y112 phosphorylation to promote cancer immune evasion J. Clin. Invest., 2019-07-15;130(0):. 2019-07-15 [PMID: 31305264]

Villar J, Cros A, De Juan A et al. ETV3 and ETV6 enable monocyte differentiation into dendritic cells by repressing macrophage fate commitment Nature immunology 2023-01-01 [PMID: 36543959] (WB, Human)

Vierra NC, Dickerson MT, Jordan KL et al. TALK-1 reduces delta-cell endoplasmic reticulum and cytoplasmic calcium levels limiting somatostatin secretion. Mol Metab 2018-03-01 [PMID: 29402588]



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

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
NB7115	Goat anti-Rat IgG (H+L) Secondary Antibody [HRP]
NBP2-21947-0.1mg	Rat IgG2a Isotype Control (2A3)

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