

# Product Datasheet

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

Unit Size: 100uL

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

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Updated 10/23/2024 v.20.1

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**NB300-619**

gp96/HSP90B1/GRP94 Antibody (9G10)

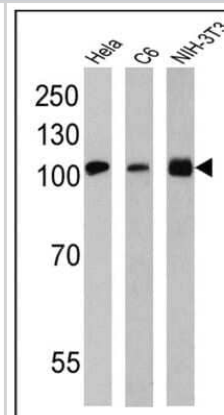
| Product Information |  |
|---------------------|--|
| Unit Size           | 100uL  |
| Concentration       | This product is unpurified. The exact concentration of antibody is not quantifiable. |
| Storage             | Store at -20C. Avoid freeze-thaw cycles.   |
| Clonality           | Monoclonal   |
| Clone               | 9G10   |
| Preservative        | 0.05% Sodium Azide   |
| Isotype             | IgG2a  |
| Purity              | Unpurified   |
| Buffer              | Ascites  |

| Product Description     |   |
|-------------------------|---|
| 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.                        |

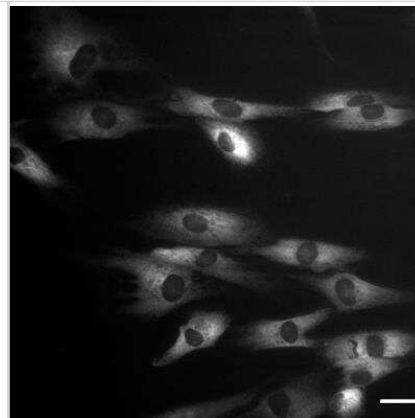
| Product Application Details |  |
|-----------------------------|--|
| Applications                | Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Immunocytochemistry   |
| Recommended Dilutions       | Western Blot 1:100 - 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**

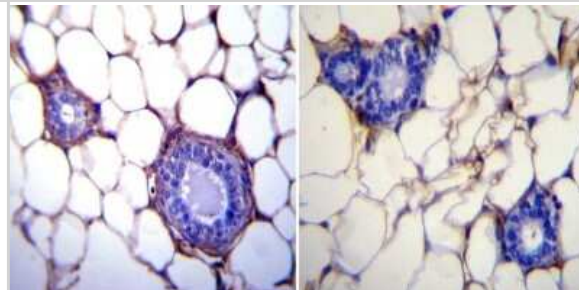
Western Blot: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Analysis of 25 ug of HeLa (lane 1), C6 (lane 2) and NIH-3T3 (lane 3) lysates.



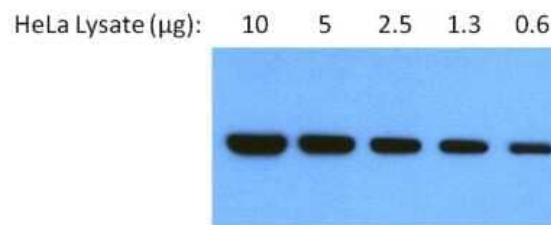
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - GR94 in human primary fibroblasts, ER staining. Primary antibody incubation: 1:250 in 10% Serum in PBST (0.1% Triton) O/N 4C. Secondary: Donkey anti-rat 647 1:500 2h RT. ICC/IF image submitted by a verified customer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



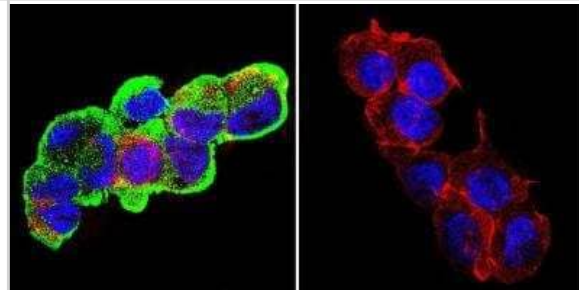
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Normal biopsies of deparaffinized Mouse breast tissue.



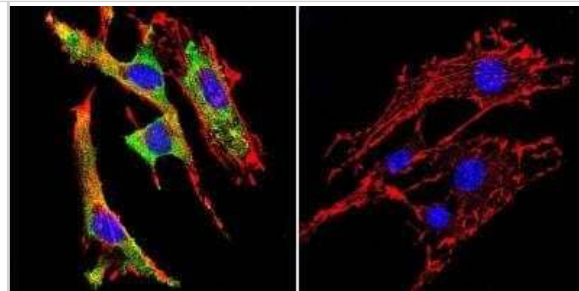
Western Blot: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Analysis of 2-fold serial dilutions of HeLa cell lysate, starting at 10 ug, per well.



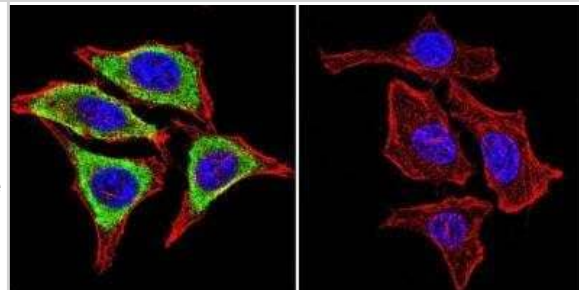
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Analysis of Glucose-Regulated Protein 94 using Glucose-Regulated Protein 94 Monoclonal Antibody (9G10) shows staining in C6 Cells. Glucose-Regulated Protein 94 (green), F-Actin staining with Phalloidin (red) and 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.



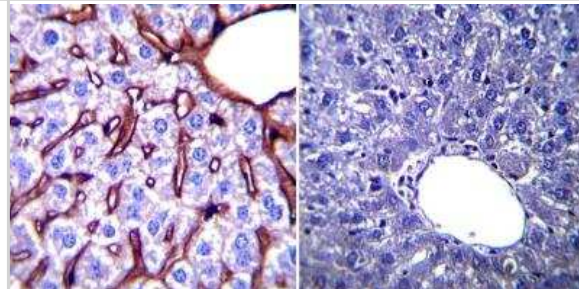
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Analysis of Glucose-Regulated Protein 94 using Glucose-Regulated Protein 94 Monoclonal Antibody (9G10) shows staining in HeLa Cells. Glucose-Regulated Protein 94 (green), F-Actin staining with Phalloidin (red) and 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.



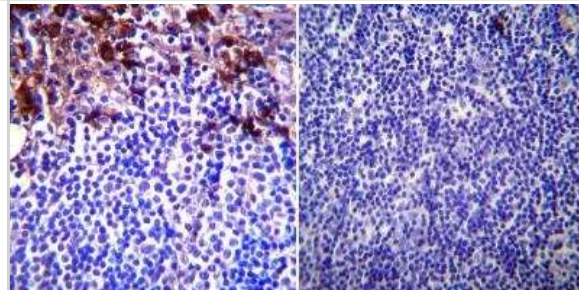
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Analysis of Glucose-Regulated Protein 94 using Glucose-Regulated Protein 94 Monoclonal Antibody (9G10) shows staining in NIH-3T3 Cells. Glucose-Regulated Protein 94 (green), F-Actin staining with Phalloidin (red) 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.



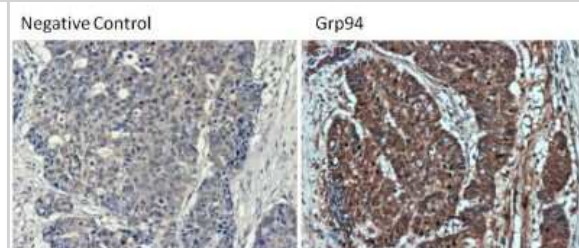
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (9G10) [NB300-619] - Normal biopsies of deparaffinized Mouse lymph node.



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.



## Publications

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 immunochemotherapy 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]



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### **Products Related to NB300-619**

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|                  |   |
|------------------|---|
| HAF005           | Goat anti-Rat IgG Secondary Antibody [HRP]                |
| NBP1-75398       | Goat anti-Rat IgG (H+L) Secondary Antibody (Pre-adsorbed) |
| NBP2-21947-0.1mg | Rat IgG2a Isotype Control (2A3)                           |
| NBP2-24698PEP    | gp96/HSP90B1/GRP94 Antibody Blocking Peptide              |

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### **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.

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