

Product Datasheet

gp96/HSP90B1/GRP94 Antibody (CL2647) - BSA Free NBP2-42379

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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NBP2-42379

gp96/HSP90B1/GRP94 Antibody (CL2647) - BSA Free

| Product Information | |
|----------------------|--|
| Unit Size | 0.1 ml |
| Concentration | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | CL2647 |
| Preservative | 0.02% Sodium Azide |
| Isotype | IgG2b |
| Purity | Protein A purified |
| Buffer | PBS (pH 7.2) and 40% Glycerol |

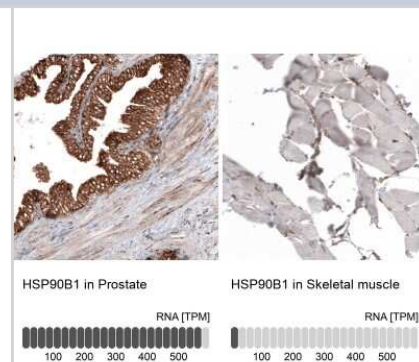
| Product Description | |
|-------------------------|---|
| Description | Novus Biologicals Mouse gp96/HSP90B1/GRP94 Antibody (CL2647) - BSA Free (NBP2-42379) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-gp96/HSP90B1/GRP94 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Mouse |
| Gene ID | 7184 |
| Gene Symbol | HSP90B1 |
| Species | Human |
| Reactivity Notes | Expected species cross reactivity based on sequence identity: Rat (87%). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions |
| Immunogen | This antibody was developed using a recombinant protein derived from P14625, with the exact immunogen sequence remaining proprietary. |

| Product Application Details | |
|------------------------------|--|
| Applications | Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated |
| Recommended Dilutions | Western Blot 1 ug/ml, Immunohistochemistry 1:5000 - 1:10000, Immunocytochemistry/ Immunofluorescence 2-10 ug/ml, Immunohistochemistry-Paraffin 1:5000 - 1:10000, Knockdown Validated |
| Application Notes | For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. |

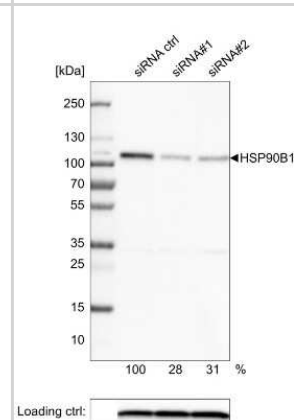


Images

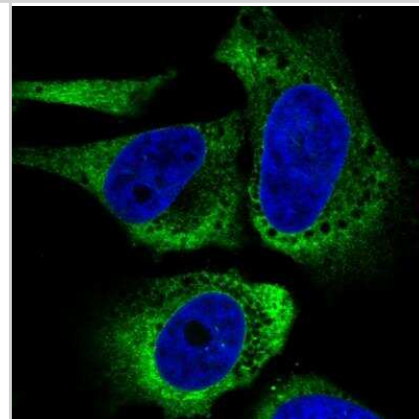
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining in human prostate and skeletal muscle tissues using NBP2-42379 antibody. Corresponding HSP90B1 RNA-seq data are presented for the same tissues.



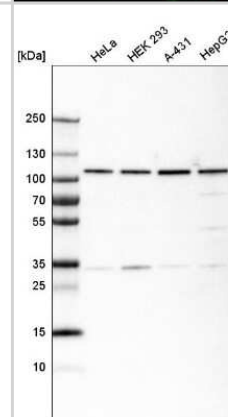
Western Blot: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Analysis in U-251MG cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-HSP90B1 antibody. Remaining relative intensity is presented. Loading control: Anti-PPIB.



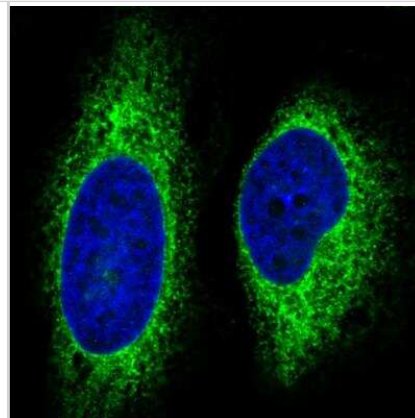
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining in U251 cell line showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green. Antibody staining is shown in green.



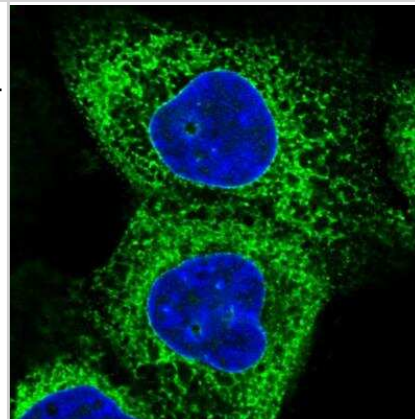
Western Blot: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Analysis in human cell line HeLa, human cell line HEK 293, human cell line A-431 and human cell line HepG2.



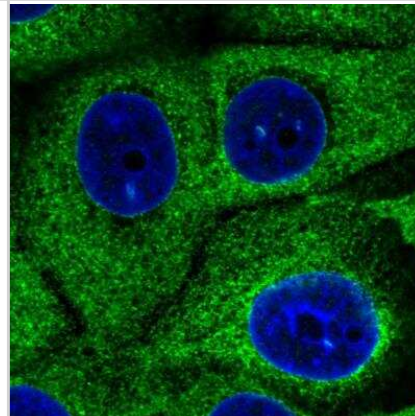
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining in HeLa cell line showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green. Antibody staining is shown in green.



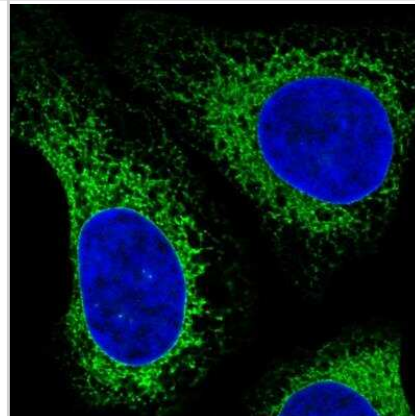
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining of human cell line A431 showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green. Antibody staining is shown in green.



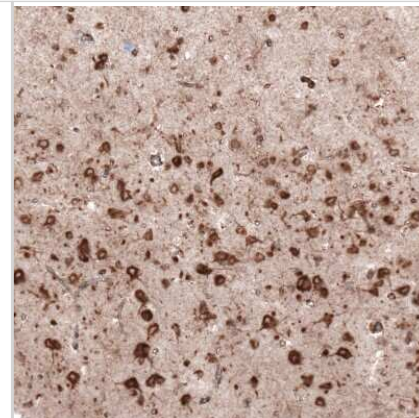
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining in MCF7 cell line showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green. Antibody staining is shown in green.



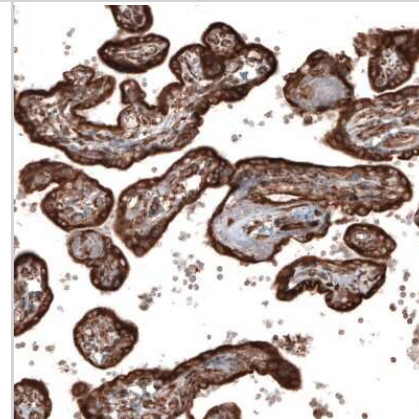
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining in U2OS cell line with Anti-HSP90B1 monoclonal antibody, showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green. Antibody staining is shown in green.



Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining of human cerebral cortex shows strong cytoplasmic positivity in neurons.



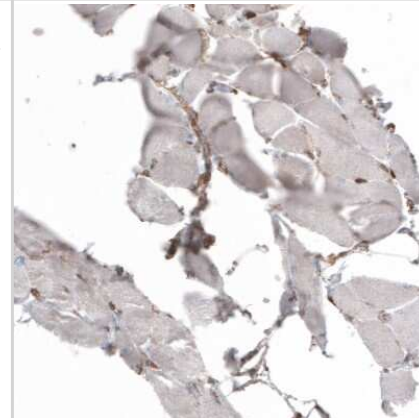
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining of human placenta shows strong cytoplasmic positivity in trophoblastic cells.



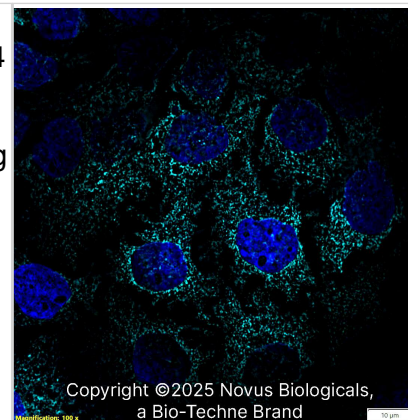
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining of human prostate shows strong cytoplasmic positivity in glandular cells.



Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining of human skeletal muscle shows very weak cytoplasmic positivity in myocytes.



gp96/HSP90B1/GRP94 (CL2647) was detected in immersion fixed A431 human skin carcinoma cell line using Mouse anti-gp96/HSP90B1/GRP94 (CL2647) Protein A Purified Monoclonal Antibody conjugated to Alexa Fluor® 647 (Catalog # NBP2-42379) (light blue) at 2 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



Publications

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]

Lee J, Hwang H, Kang D et al. Therapy-induced senescent cancer cells contribute to cancer recurrence by providing a PD-L1 umbrella regulated by ribophorin 1 Research Square 2023-10-09 (ICC/IF, Human)

Zhang X, Huang X, Xu J Et Al. NEK2 inhibition triggers anti-pancreatic cancer immunity by targeting PD-L1 Nature communications 2021-07-27 [PMID: 34315872] (WB)

Cha JH, Yang WH, Xia W et al. Metformin Promotes Antitumor Immunity via Endoplasmic-Reticulum-Associated Degradation of PD-L1 Mol. Cell 2018-08-16 [PMID: 30118680] (ICC/IF, Human)



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Products Related to NBP2-42379

| | |
|---------------|--|
| NBP2-42379PEP | gp96/HSP90B1/GRP94 Recombinant Protein Antigen |
| 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] |
| NBP2-27231 | Mouse IgG2b Isotype Control (MPC-11) |

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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