

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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Publications: 4

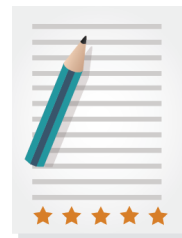
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NBP2-42379

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

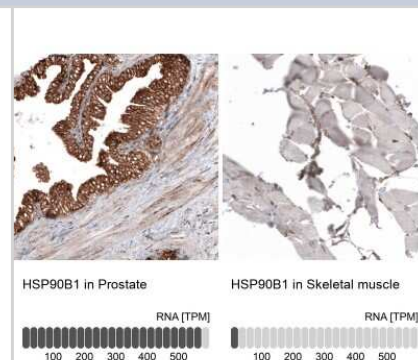
Product Description	
Description	Novus Biologicals Mouse gp96/HSP90B1/GRP94 Antibody (CL2647) - BSA Free (NBP2-42379) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-gp96/HSP90B1/GRP94 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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.

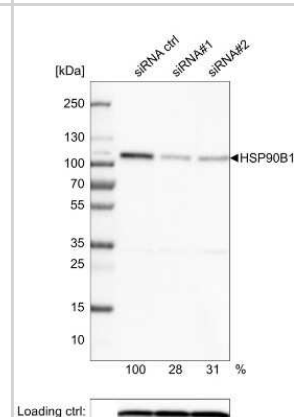


Images

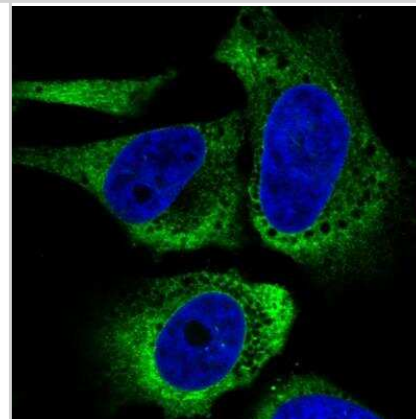
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining in human prostate and skeletal muscle tissues using NBP2-42379 antibody. Corresponding HSP90B1 RNA-seq data are presented for the same tissues.



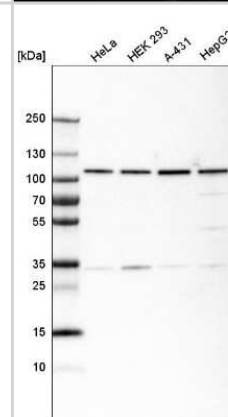
Western Blot: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Analysis in U-251MG cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-HSP90B1 antibody. Remaining relative intensity is presented. Loading control: Anti-PPIB.



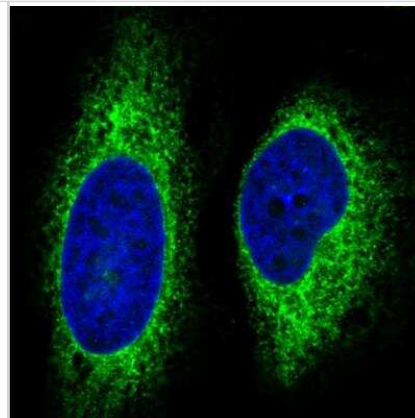
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining in U251 cell line showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining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



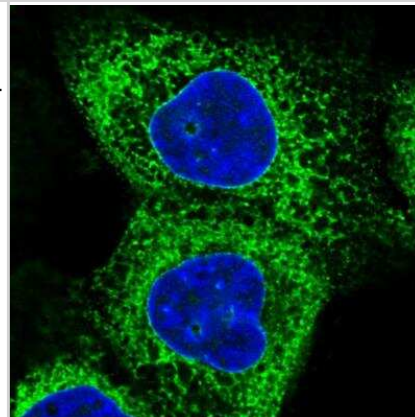
Western Blot: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Analysis in human cell line HeLa, human cell line HEK 293, human cell line A-431 and human cell line HepG2.



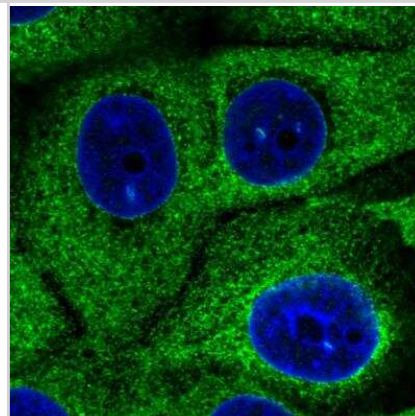
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining in HeLa cell line showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining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



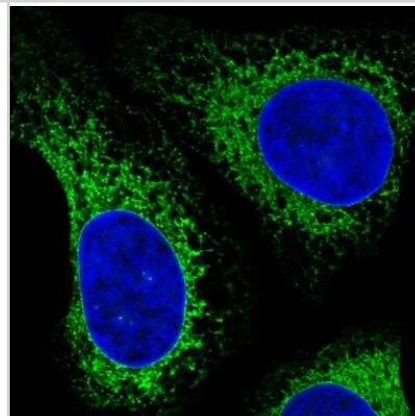
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining of human cell line A431 showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining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



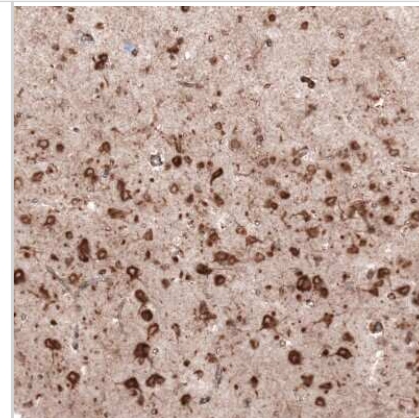
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining in MCF7 cell line showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining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



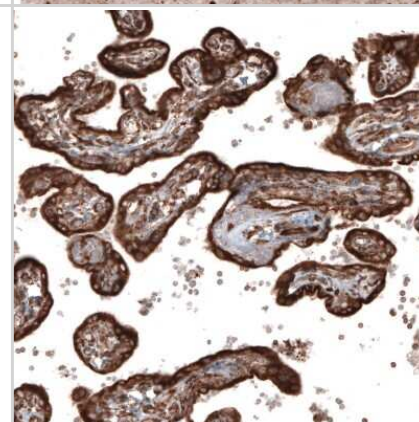
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining in U2OS cell line with Anti-HSP90B1 monoclonal antibody, showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively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



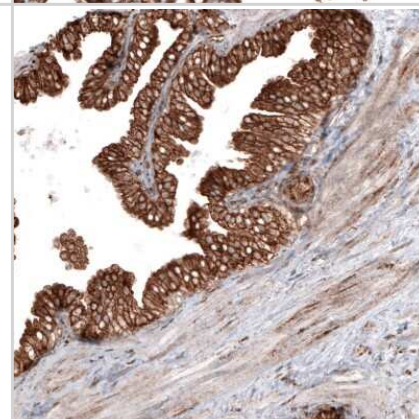
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining of human cerebral cortex shows strong cytoplasmic positivity in neurons.



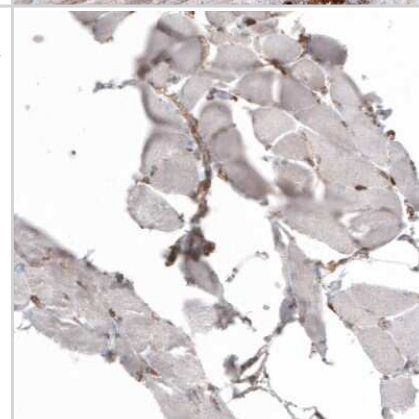
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining of human placenta shows strong cytoplasmic positivity in trophoblastic cells.



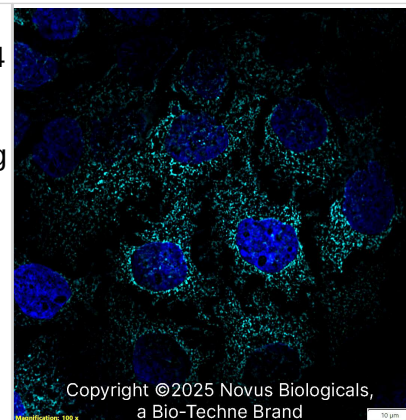
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining of human prostate shows strong cytoplasmic positivity in glandular cells.



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 4°C. 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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NBP2-42379PEP	gp96/HSP90B1/GRP94 Recombinant Protein Antigen
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)

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