

# Product Datasheet

## gp96/HSP90B1/GRP94 Antibody (CL2647) - BSA Free NBP2-42379-25ul

Unit Size: 25ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-42379-25ul**

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

**Product Information**

<b>Unit Size</b>	25ul
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	CL2647
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG2b
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

**Product Description**

<b>Host</b>	Mouse
<b>Gene ID</b>	7184
<b>Gene Symbol</b>	HSP90B1
<b>Species</b>	Human
<b>Reactivity Notes</b>	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
<b>Immunogen</b>	This antibody was developed using a recombinant protein derived from P14625, with the exact immunogen sequence remaining proprietary.

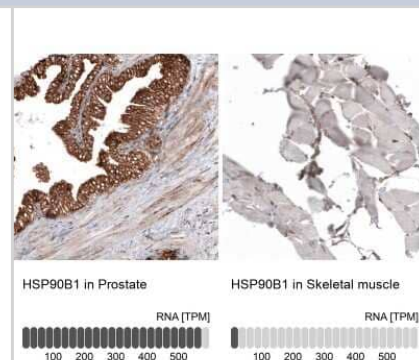
**Product Application Details**

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

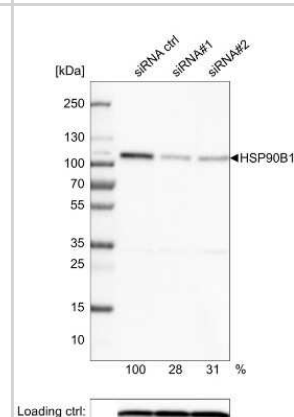


## Images

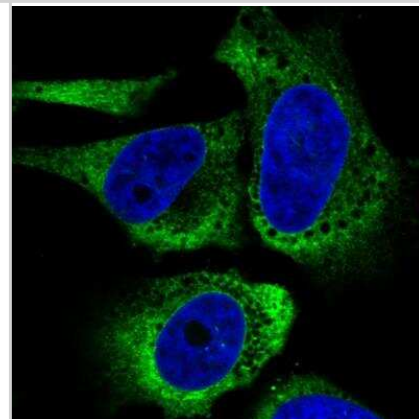
**Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379]** - Staining in human prostate and skeletal muscle tissues using NBP2-42379 antibody. Corresponding HSP90B1 RNA-seq data are presented for the same tissues.



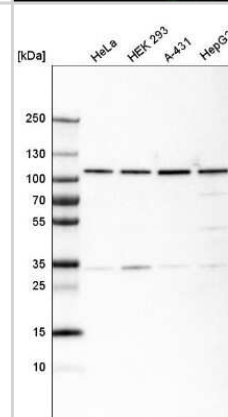
**Western Blot: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379]** - Analysis in U-251MG cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-HSP90B1 antibody. Remaining relative intensity is presented. Loading control: Anti-PPIB.



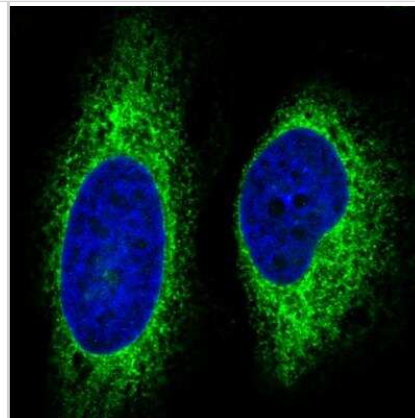
**Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379]** - Staining in U251 cell line showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining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



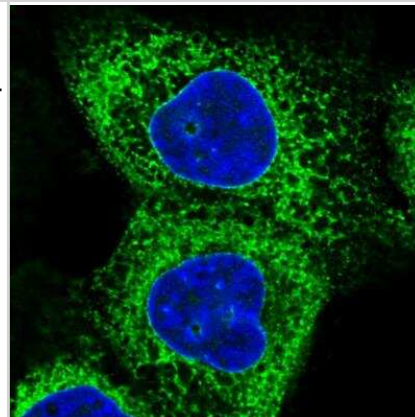
**Western Blot: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379]** - Analysis in human cell line HeLa, human cell line HEK 293, human cell line A-431 and human cell line HepG2.



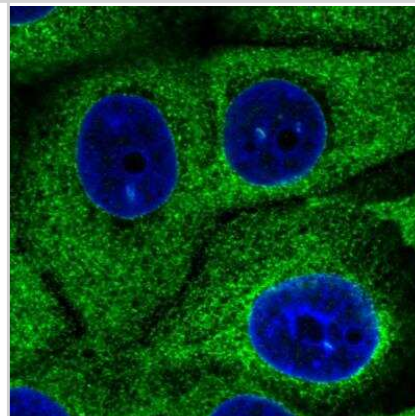
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining in HeLa cell line showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining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



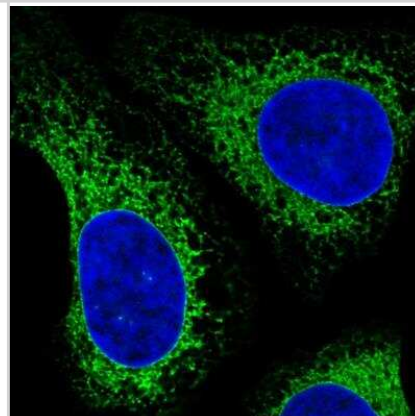
Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining of human cell line A431 showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining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

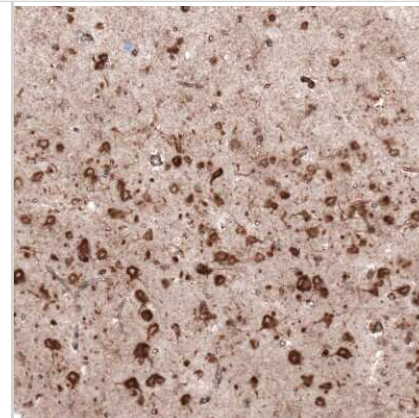


Immunocytochemistry/Immunofluorescence: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining in U2OS cell line with Anti-HSP90B1 monoclonal antibody, showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively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

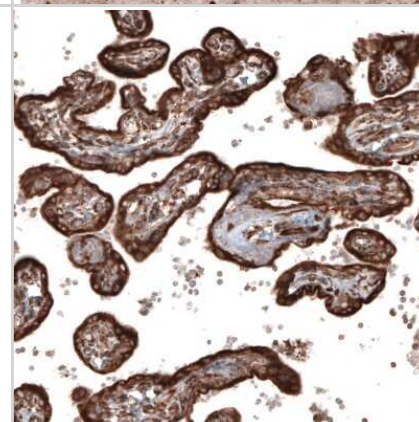




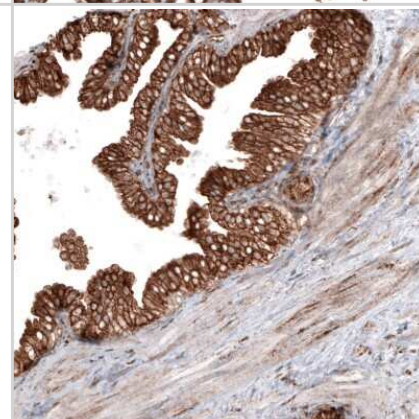
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining of human cerebral cortex shows strong cytoplasmic positivity in neurons.



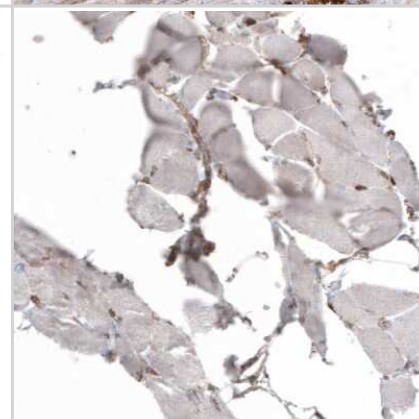
Immunohistochemistry-Paraffin: gp96/HSP90B1/GRP94 Antibody (CL2647) [NBP2-42379] - Staining of human placenta shows strong cytoplasmic positivity in trophoblastic cells.



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.



## 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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### **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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