

# Product Datasheet

## HSP90 Antibody (AC88) - BSA Free NB100-1972

Unit Size: 0.1 mg

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

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 7

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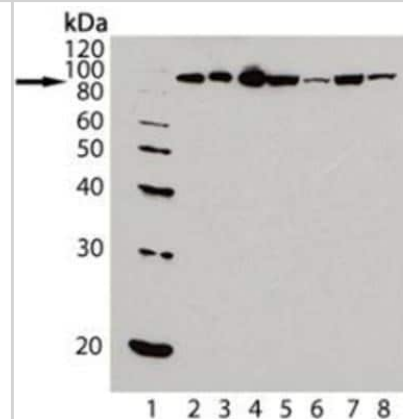
**NB100-1972**

HSP90 Antibody (AC88) - BSA Free

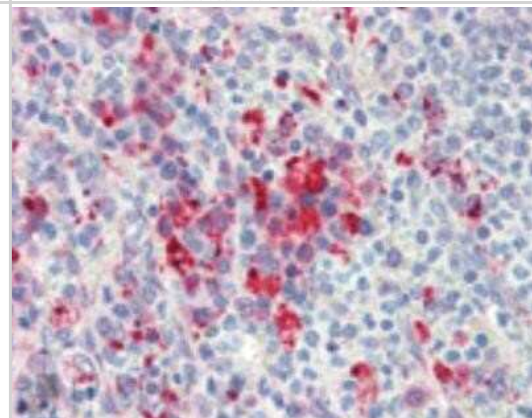
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	AC88
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS and 50% Glycerol
<b>Target Molecular Weight</b>	90 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse HSP90 Antibody (AC88) - BSA Free (NB100-1972) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and Simple Western. Anti-HSP90 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	3320
<b>Gene Symbol</b>	HSP90AA1
<b>Species</b>	Human, Mouse, Rat, Porcine, Bacteria, Canine, Chicken, Fish, Guinea Pig, Primate, Rabbit, Sheep
<b>Reactivity Notes</b>	Recognizes Beluga, <i>C. elegans</i> , <i>Fusobacterium nucleatum</i> , <i>Mycobacterium leprae</i> , Mussel, Scallop and Water Mold HSP90. 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>Specificity/Sensitivity</b>	Recognizes both Hsp90 alpha and beta. It reacts with the rodent glucocorticoid receptor and with proliferation potential proteins (P2PS) with apparent molecular masses of 30-40 kDa.
<b>Immunogen</b>	<i>Achlya ambisexualis</i> (water mold) Hsp90.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Intracellular), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1 ug/ml, Simple Western 1:50, Flow Cytometry, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:10-1:500, Flow (Intracellular)
<b>Application Notes</b>	Use in ICC/IF reported in scientific literature (PMID: 30373228).

## Images

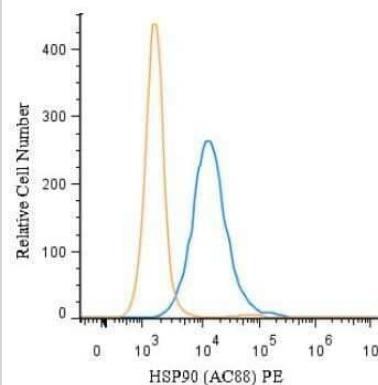
Western Blot: HSP90 Antibody (AC88) [NB100-1972] - Analysis of HSP90, mAb (AC88): Lane 1: MW Marker; Lane 2: HSP90 (human), (native) ; Lane 3: HSP90 beta, (human) (recombinant); Lane 4: HSP90a (human), (recombinant); Lane 5: HeLa (heat shocked); Lane 6: 3T3 (heat shocked); Lane 7: PC-12 (heat shocked) ; Lane 8: CHO-K1 (heat shocked).



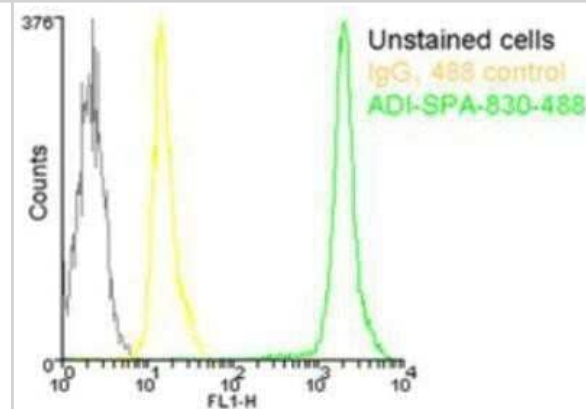
Immunohistochemistry: HSP90 Antibody (AC88) [NB100-1972] - Analysis of human spleen tissue stained with HSP90, mAb (AC88) at 10 ug/ml.



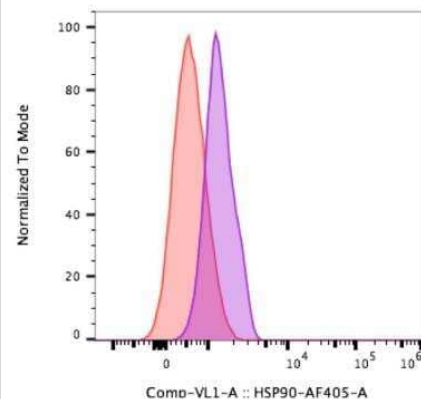
Flow (Intracellular): HSP90 Antibody (AC88) [NB100-1972] - An intracellular stain was performed on HeLa cells with HSP90 Antibody (AC88) NB100-1972PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to phycoerythrin. Image using the PE format of this antibody.



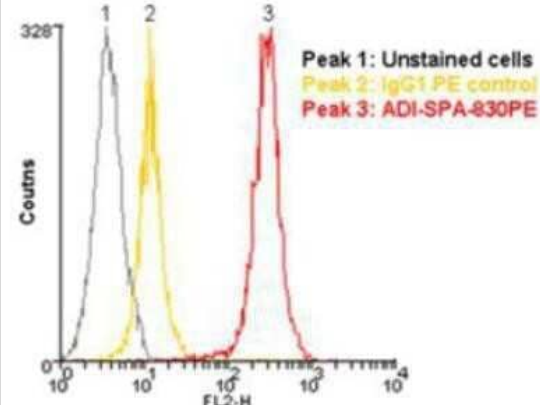
Flow Cytometry: HSP90 Antibody (AC88) [NB100-1972] - Analysis using the DyLight 488 conjugate of NB100-1972. Staining of 106 Jurkat cells using HSP90 mAb (AC88), DyLight 488 Conjugate at a concentration of 50ug/ml.



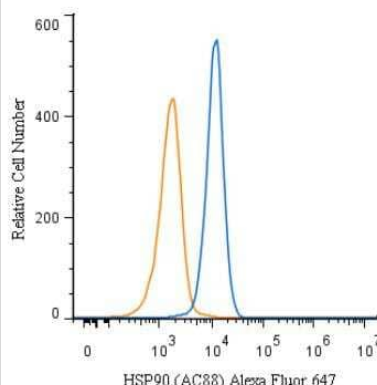
Flow Cytometry: HSP90 Antibody (AC88) [NB100-1972] - Analysis using the Alexa Fluor 405 conjugated HSP90 antibody, NB100-1972AF405 (purple) and fluorescence minus one control (orange). Staining of HSP90 in Primary CD4+ T-cells derived from human peripheral blood using 1uL of antibody per 1X10e5 cells. Image from verified customer review.



Flow Cytometry: HSP90 Antibody (AC88) [NB100-1972] - Analysis using the PE conjugate of NB100-1972. Staining of 10^6 Jurkat cells using HSP90 mAb (AC88), R-Phycoerythrin Conjugate at a concentration of 10ug/mL

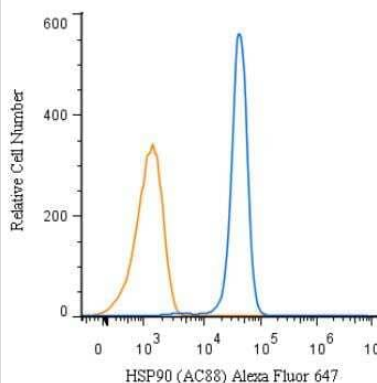


Flow Cytometry: HSP90 Antibody (AC88) [NB100-1972] - An intracellular stain was performed on HeLa cells with HSP90 Antibody (AC88) NB100-1972AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



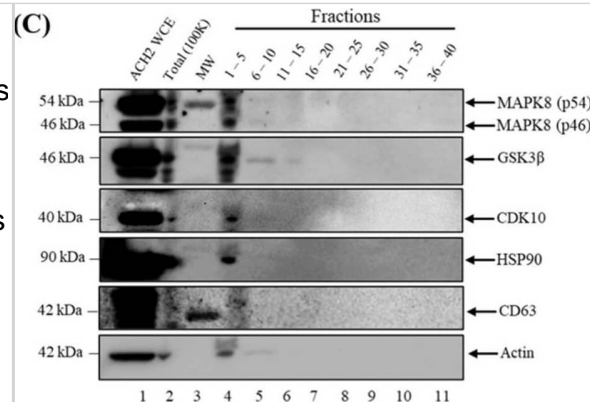
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Flow Cytometry: HSP90 Antibody (AC88) [NB100-1972] - An intracellular stain was performed on Jurkat cells with HSP90 Antibody (AC88) NB100-1972AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



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MAPK8, CDK10, and GSK3 $\beta$  are associated with exosomes: (A) Schematic diagram of the differential ultracentrifugation and size exclusion chromatography exosome isolation methods. (B) U1 exosomes and (C) ACH2 exosomes isolated via differential ultracentrifugation are loaded onto IZON 35 nm qEV original exclusion columns. Forty fractions are collected and pooled in sets of 5. Pooled fractions are then probed for MAPK8, CDK10, GSK3 $\beta$ , HSP90, and CD63 using Western blot. This figure is representative of a data set of n = 1. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/39851547>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Onay Ucar E, Sengelen A, Mertoglu Kamali E Hsp27, Hsp60, Hsp70, or Hsp90 depletion enhances the antitumor effects of resveratrol via oxidative and ER stress response in human glioblastoma cells *Biochemical Pharmacology* 2023-02-01 [PMID: 36603687] (WB, Human)

Details:  
1:1000 WB dilution

Panagioti E, Kurokawa C, Viker K Et Al. Immunostimulatory bacterial antigen-armed oncolytic measles virotherapy significantly increases the potency of anti-PD1 checkpoint therapy *The Journal of clinical investigation* 2021-07-01 [PMID: 34196308] (FLOW)

Freund E, Miebach L, Stope MB, Bekeschus S Hypochlorous acid selectively promotes toxicity and the expression of danger signals in human abdominal cancer cells *Oncology reports* 2021-05-01 [PMID: 33760187] (FLOW, Human)

Mohamed H, Clemen R, Freund E et al. Non-thermal plasma modulates cellular markers associated with immunogenicity in a model of latent HIV-1 infection *PloS one* 2021-03-01 [PMID: 33647028]

Bekeschus S, Clemen R, Niebner F et al. Medical Gas Plasma Jet Technology Targets Murine Melanoma in an Immunogenic Fashion *Adv. Sci.* 2020-03-30 [PMID: 32440479]

Bekeschus S, Freund E, Wende k et al. Hmox1 Upregulation Is a Mutual Marker in Human Tumor Cells Exposed to Physical Plasma-Derived Oxidants. *Antioxidants (Basel)*. 2018-10-27 [PMID: 30373228] (ICC/IF, Human)

Kelly RL, Geoghegan JC, Feldman J et al. Chaperone proteins as single component reagents to assess antibody nonspecificity *MAbs* 2017-07-26 [PMID: 28745541] (Mouse)



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General: novus@novusbio.com

### **Products Related to NB100-1972**

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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]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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