

HSP90 beta Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Non-human primate, Rat
Published Species	Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues P(2) E E V H H G E E E V E(13) of mouse HSP84.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20°C, Avoid Freeze/Thaw Cycles
RRID	AB_2121220

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:20,000	19 Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:100	-
Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL	-
Immunocytochemistry (ICC/IF)	10-20 µg/mL	3 Publications
Flow Cytometry (Flow)	1-20 µg/mL	1 Publication
Immunoprecipitation (IP)	2 µg	2 Publications

Product Specific Information

PA3-012 detects heat shock protein 90 beta (HSP90) from human, monkey, mouse, and rat tissues and cells. This antibody does not detect HSP86.

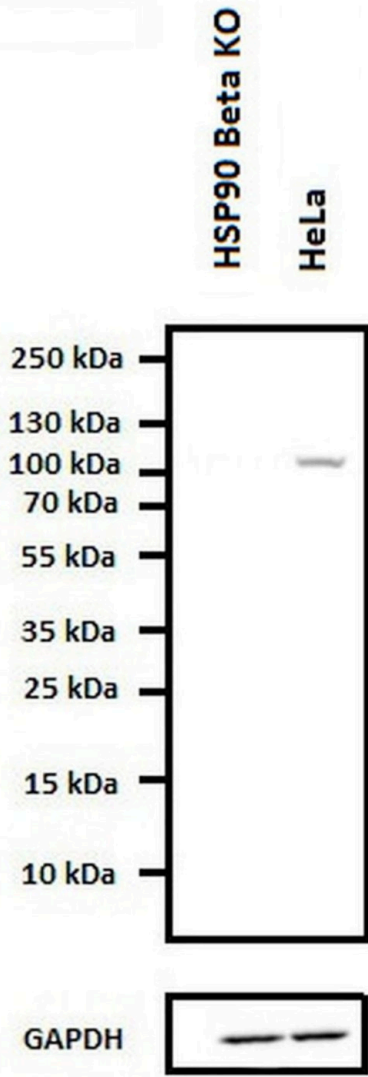
PA3-012 has been successfully used in Western blot, immunohistochemistry, immunofluorescence, flow cytometry, and immunoprecipitation procedures. By Western blot, this antibody detects an ~84 kDa protein representing HSP84 from Hepa1 cell lysate. Immunofluorescence staining of HSP84 in Hepa1 cells with PA3-012 yields a pattern consistent with cytoplasmic staining. Immunoprecipitation experiments with this antibody suggest that HSP84 exists primarily as homodimers in Hepa 1 cells. Furthermore, the antibody is capable of precipitating HSP84 that is complexed with other proteins such as the aryl hydrocarbon (Ah) receptor.

The PA3-012 immunogen is a synthetic peptide corresponding to residues P(2) E E V H H G E E E V E(13) of mouse HSP84. The N-terminal regions of HSP84 and HSP86 show the largest difference in amino acid sequence.

Product Images For HSP90 beta Polyclonal Antibody

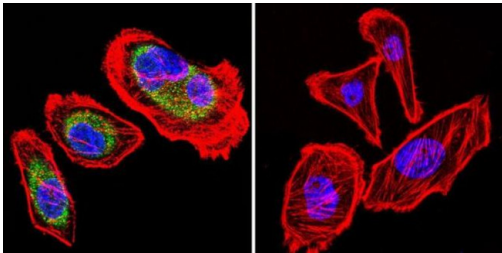
HSP90 beta Antibody (PA3-012)

The specificity of anti-HSP90 beta rabbit polyclonal antibody (Product # PA3-012) was demonstrated by CRISPR targeted HSP90 beta knockout in HeLa cells. Western blot analysis of whole cell lysates using this antibody showed no detection of HSP90 beta protein expression in knockout cells compared to the protein detected in wild-type HeLa cells. {KO}



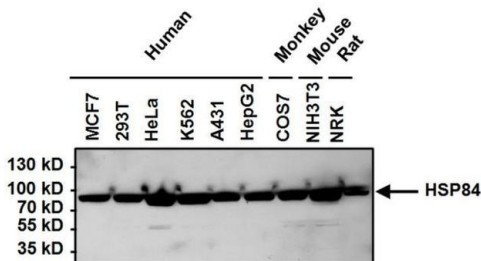
HSP90 beta Antibody (PA3-012) in ICC/IF

Immunofluorescent analysis of Heat Shock Protein 84 using Anti-Heat Shock Protein 84 Polyclonal Antibody (Product # PA3-012) shows staining in U251 Cells. Heat Shock Protein 84 staining (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 or an antibody recognizing Heat Shock Protein 84 (Product # PA3-012) at a dilution of 1:100 over night at 4°C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552, Goat Anti-Rabbit). Images were taken at 60X magnification.



HSP90 beta Antibody (PA3-012) in WB

Western blot analysis of Heat Shock Protein 84 (HSP84) was performed by loading 50 µg of the indicated whole cell lysates per well onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% BSA/TBST for at least 1 hour. The membrane was then probed with a HSP84 polyclonal antibody (Product # PA3-012) at a dilution of 1:1000 overnight at 4°C on a rocking platform, washed in TBS-0.1% Tween 20, and probed with a goat anti-rabbit IgG-HRP secondary antibody (Product # 31460) at a dilution of 1:20,000 for at least one hour. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34080).



28 References

Western Blot (19)

Cancer science

HSP90 promotes radioresistance of cervical cancer cells via reducing FBXO6-mediated CD147 polyubiquitination.

"PA3-012 was used in Western Blotting to show that HSP90 promotes radioresistance of cervical cancer cells partially via reducing FBXO6 mediated CD147 polyubiquitination."

Authors: Song Q,Wen J,Li W,Xue J,Zhang Y,Liu H,Han J,Ning T,Lu Z

Year
2022

Species
Human

Dilution
1:1000

Immunobiology

Selective HSP90 inhibition results in TNF and TRAIL mediated HIF1 degradation.

"PA3-012 was used in Flow Cytometry, Immunocytochemistry, Immunohistochemistry (Frozen), Immunoprecipitation, Western Blot to suggest that selective inhibition of HSP90 isoforms together with death ligand stimulation may provide novel strategies for therapy of inflammatory diseases or cancer, in future."

Authors: Heck AL,Mishra S,Prenzel T,Feulner L,Achhammer E,Särchen V,Blagg BSJ,Schneider-Brachert W,Schütze S,Fritsch J

Year
2021

Species
Human

[View more WB references on thermofisher.cn](#)

Immunohistochemistry (3)

Frontiers in endocrinology

Heat Shock Protein 90 as a Prognostic Marker and Therapeutic Target for Adrenocortical Carcinoma.

"PA3-012 was used in Western Blotting to examine the expression of HSP90 in different adrenal tumors and evaluate the use of HSP90 inhibitors in vitro as a possible therapy for adrenocortical carcinoma."

Authors: Siebert C,Cioto D,Murakami M,Frei-Stuber L,Perez-Rivas LG,Monteserin-Garcia JL,Nölting S,Maurer J,Feuchtinger A,Walch AK,Haak HR,Bertherat J,Mannelli M,Fassnacht M,Korpershoek E,Reincke M,Stalla GK,Hantel C,Beuschlein F

Year
2020

Species
Human

Dilution
1:1000

Investigative ophthalmology & visual science

Functional and cellular responses in a novel rodent model of anterior ischemic optic neuropathy.

"PA3-012 was used in immunohistochemistry to evaluate a novel rodent anterior ischemic optic neuropathy model"

Authors: Bernstein SL,Guo Y,Kelman SE,Flower RW,Johnson MA

Year
2003

Species
Rat

Dilution
1:100

[View more IHC references on thermofisher.cn](#)

More applications with references on thermofisher.cn

ICC/IF (3)

Flow (1)

IP (2)

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