HSP90 beta Polyclonal Antibody

100 μg
Human, Mouse, Non-human primate, Rat
Rat, Human, Mouse
Rabbit / IgG
Polyclonal
Antibody
Unconjugated
Synthetic peptide corresponding to residues P(2) E E V H H G E E E V E(13) of mouse HSP84.
Liquid
1 mg/mL
Antigen affinity chromatography
1mg/mL BSA
0.05% sodium azide
-20° C, Avoid Freeze/Thaw Cycles
AB_2121220

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:20,000	18 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	-
Immunoprecipitation (IP)	2 μg	2 Publications

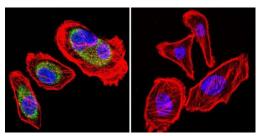
Product Specific Information

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 aryll 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

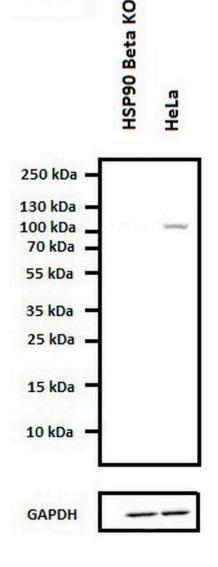


HSP90 beta Antibody (PA3-012) in ICC/IF

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.

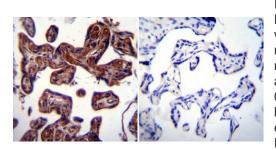
HSP90 beta Antibody (PA3-012)

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 IHC (P)

Immunohistochemistry was performed on normal biopsies of deparaffinized Human placenta tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer, microwaved for 8-15 minutes. Following antigen retrieval tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Tissues were then probed at a dilution of 1:20 with a rabbit polyclonal antibody recognizing Heat Shock Protein 84 (Product # PA3-012) or without primary antibody (negative control) overnight at 4°C in a humidified chamber. Tissues were washed extensively with PBST and endogenous peroxidase activity was quenched with a peroxidase suppressor. Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin and prepped for mounting.



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□ 26 References

Western Blot (18)

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 Western Blotting 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.com

Immunohistochemistry (3)

Frontiers in endocrinology

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

"Published figure using HSP90 beta polyclonal antibody (Product # PA3-012) in Western Blot"

Authors: Siebert C,Ciato 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.com

More applications with references on thermofisher.com

ICC/IF (3)

IP (2)

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