

HSP90 beta Polyclonal Antibody

Product Details

Size	500 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Pig
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	A synthetic peptide corresponding to aa 2-13 (PEEVHHGEEEEVE-Cys) from the N-terminus end of mouse heat shock protein 90beta
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_10976835

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1:100-1:500	1 Publication
Immunofluorescence (IF)	1:100-1:500	-
Immunoprecipitation (IP)	2 µg/mL	-
Western Blot (WB)	1 µg/mL	1 Publication
Immunohistochemistry (IHC)	-	1 Publication

Product Specific Information

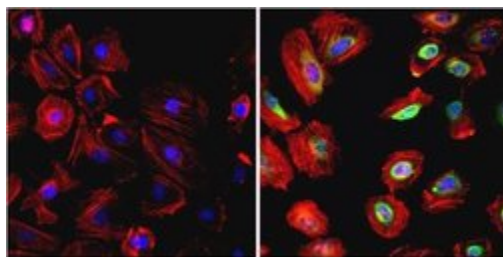
PA5-16327 targets Heat Shock Protein 90 beta in IP, IF/ICC, and WB applications and shows reactivity with mouse, Rat, and Human samples.

The PA5-16327 immunogen is a synthetic peptiude corresponding to aa 2-13 (PEEVHHGEEEEVE-Cys) from the N-terminus end of mouse heat shock protein 90beta.

This antibody was orginally validated as part of a Thermo Scientific Celloomics High Content Screening Kit. The antibody sold separately may have slightly different performance and may need to be further optimized for the best results.

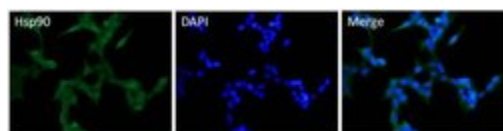
Product Images For HSP90 beta Polyclonal Antibody

HSP90 beta Antibody (PA5-16327) in IF



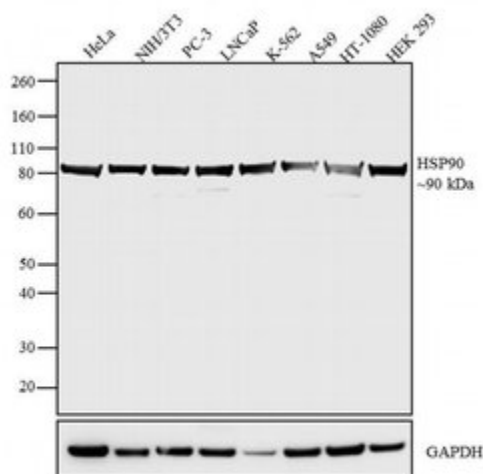
Immunofluorescent analysis of Heat Shock Protein 90 beta (green) in HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA (Product # 37525) for 15 minutes at room temperature. Cells were probed without (left panel) or with (right panel) a Heat Shock Protein 90 beta polyclonal antibody (Product # PA5-16327) at a dilution of 1:200 for at least 1 hour at room temperature, washed with PBS, and incubated with DyLight 488 goat anti-rabbit IgG secondary antibody (Product # 35552) at a dilution of 1:400 for 30 minutes at room temperature. F-Actin (red) was stained with DyLight 554 Phalloidin (Product # 21834) and nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ArrayScan or a ToxInsight Instrument at 20X magnification.

HSP90 beta Antibody (PA5-16327) in IF



Immunofluorescent analysis of Hsp90 beta (green) HEK293T cells. Cells fixed with 4% formaldehyde were permeabilized and blocked with 1X PBS containing 5% BSA and 0.3% Triton X-100 for 1 hour at room temperature. Cells were probed with a Hsp90 beta polyclonal antibody (Product # PA5-16327) at a dilution of 1:100 overnight at 4°C in 1X PBS containing 1% BSA and 0.3% Triton X-100, washed with 1X PBS, and incubated with a fluorophore-conjugated goat anti-rabbit IgG secondary antibody at a dilution of 1:200 for 1 hour at room temperature. Nuclei (blue) were stained with DAPI. Images were taken on a Leica DM1000 microscope at 40X magnification. Data courtesy of the Innovators Program.

HSP90 beta Antibody (PA5-16327) in WB



Western blot analysis was performed on whole cell extracts (30 µg lysate) of HeLa (Lane 1), NIH/3T3 (Lane 2), PC-3 (Lane 3), LNCaP (Lane 4), K-562 (Lane 5), A549 (Lane 6), HT-1080 (Lane 7) and HEK 293 (Lane 8). The blot was probed with Rabbit Anti-HSP90 Polyclonal Antibody (Product # PA5-16327, 1 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 90 kDa band corresponding to HSP90 was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

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Immunohistochemistry (1)

<p>PloS one</p> <p>Functional complexity of the axonal growth cone: a proteomic analysis.</p> <p>"PA5-16327 was used in immunohistochemistry to study the proteomics of the axonal growth cone"</p> <p>Authors: Estrada-Bernal A, Sanford SD, Sosa LJ, Simon GC, Hansen KC, Pfenninger KH</p>	<p>Species Rat</p> <p>Dilution Not Cited</p> <p>Year 2012</p>
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Western Blot (1)

<p>Journal of proteomics</p> <p>Differential proteome and transcriptome analysis of porcine skeletal muscle during development.</p> <p>"PA5-16327 was used in western blot to study developmental changes in pig skeletal muscle at the transcriptomic and proteomic levels"</p> <p>Authors: Xu Y, Qian H, Feng X, Xiong Y, Lei M, Ren Z, Zuo B, Xu D, Ma Y, Yuan H</p>	<p>Species Pig</p> <p>Dilution 1:2000</p> <p>Year 2012</p>
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Immunocytochemistry (1)

<p>The Journal of cell biology</p> <p>Hectd1 regulates intracellular localization and secretion of Hsp90 to control cellular behavior of the cranial mesenchyme.</p> <p>"PA5-16327 was used in immunocytochemistry, immunoprecipitation, and western blot to elucidate the molecular cause of the abnormal behavior of Hectd1 mutant cranial mesenchyme"</p> <p>Authors: Sarkar AA, Zohn IE</p>	<p>Species Not Applicable</p> <p>Dilution Not Cited</p> <p>Year 2012</p>
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