abcam

Product datasheet

Anti-Hsp90 beta antibody ab2927

7 References　画像数 12

製品の概要

製品名	Anti-Hsp90 beta antibody
製品の詳細	Rabbit polyclonal to Hsp90 beta
由来種	Rabbit
特異性	Detects heat shock protein 90 beta (HSP90). This antibody does not detect HSP86 alpha.
アプリケーション	**適用あり:** ICC/IF, IP, WB, Flow Cyt, IHC-P
種交差性	**交差種:** Mouse, Rat, Human, Non human primates, African green monkey **交差が予測される動物種:** Rabbit, Horse, Cow, Cynomolgus monkey
免疫原	Synthetic peptide corresponding to Mouse Hsp90 beta aa 2-13. Sequence: PEEVHHGEEEVE Run BLAST with　Run BLAST with
ポジティブ・コントロール	WB: HeLa, MCF7, 293T, K562, A431, HepG2, COS7, NIH3T3 and NRK whole cell lysate. ICC/IF: HepG2, U251, HeLa, NIH3T3 and A2058 cells. Flow Cyt: HeLa cells. IP: HeLa cells. IHC-P: Human tonsil tissue, human placenta tissue, human breast carcinoma tissue.
特記事項	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
精製度	Immunogen affinity purified

ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab2927の使用に適用されます

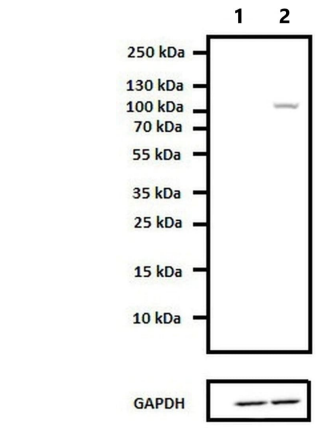
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		Use a concentration of 10 - 20 µg/ml.
IP		Use at an assay dependent concentration. 2 µg
WB		1/1000 - 1/20000.
Flow Cyt		Use a concentration of 1 - 20 µg/ml.
IHC-P		Use a concentration of 10 µg/ml.

ターゲット情報

機能	Molecular chaperone that promotes the maturation, structural maintenance and proper regulation of specific target proteins involved for instance in cell cycle control and signal transduction. Undergoes a functional cycle that is linked to its ATPase activity. This cycle probably induces conformational changes in the client proteins, thereby causing their activation. Interacts dynamically with various co-chaperones that modulate its substrate recognition, ATPase cycle and chaperone function.
配列類似性	Belongs to the heat shock protein 90 family.
ドメイン	The TPR repeat-binding motif mediates interaction with TPR repeat-containing proteins.
翻訳後修飾	Ubiquitinated in the presence of STUB1-UBE2D1 complex (in vitro). ISGylated. S-nitrosylated; negatively regulates the ATPase activity.
細胞内局在	Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

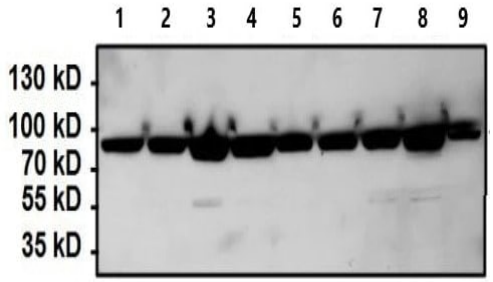
画像



Western blot - Anti-Hsp90 beta antibody (ab2927)

All lanes : Anti-Hsp90 beta antibody (ab2927)

Lane 1 : CRISPR targeted HSP90 beta knockout HeLa whole cell lysate
Lane 2 : Wild-type HeLa whole cell lysate



Western blot - Anti-Hsp90 beta antibody (ab2927)

All lanes : Anti-Hsp90 beta antibody (ab2927) at 1/1000 dilution

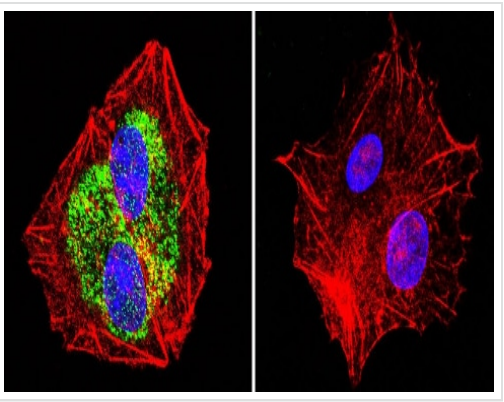
Lane 1 : MCF7 whole cell lysate
Lane 2 : 293T whole cell lysate
Lane 3 : HeLa whole cell lysate
Lane 4 : K562 whole cell lysate
Lane 5 : A431 whole cell lysate
Lane 6 : HepG2 whole cell lysate
Lane 7 : COS7 whole cell lysate
Lane 8 : NIH3T3 whole cell lysate
Lane 9 : NRK whole cell lysate

Lysates/proteins at 50 µg per lane.

Secondary
All lanes : Goat anti-rabbit IgG-HRP at 1/20000 dilution

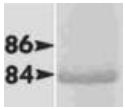
Samples were loaded onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% BSA/TBST for at least 1 hour. The membrane was then probed with primary antibody (ab2927) overnight at 4°C on a rocking platform, washed in TBS-0.1%Tween 20, and probed with

secondary antibody for at least one hour. Chemiluminescent detection was performed using SuperSignal West Pico.



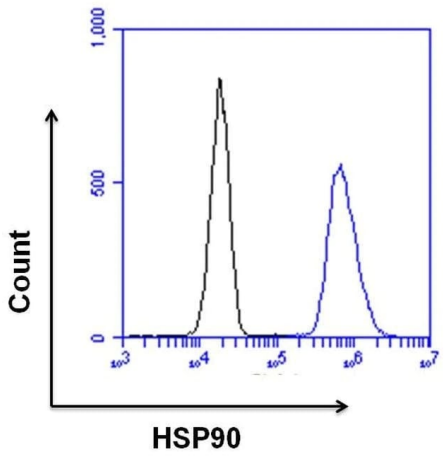
Immunocytochemistry/ Immunofluorescence - Anti-Hsp90 beta antibody (ab2927)

Immunocytochemistry/Immunofluorescence analysis of HSP90 beta shows staining in HepG2 cells. HSP 90 beta 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 ab2927 at a dilution of 1:100 over night at 4°C, washed with PBS and incubated with a DyLight-488 conjugated goat anti-rabbit secondary antibody. Images were taken at 60X magnification.



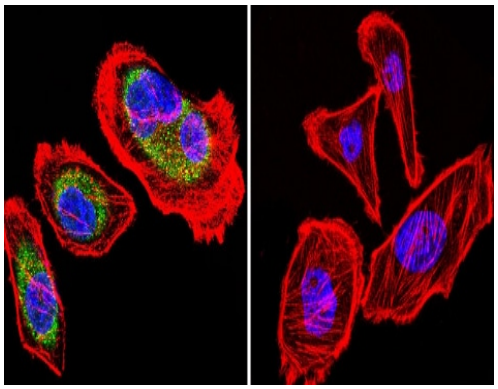
Western blot - Anti-Hsp90 beta antibody (ab2927)

Western blot of mouse HSP 86 using ab2927.



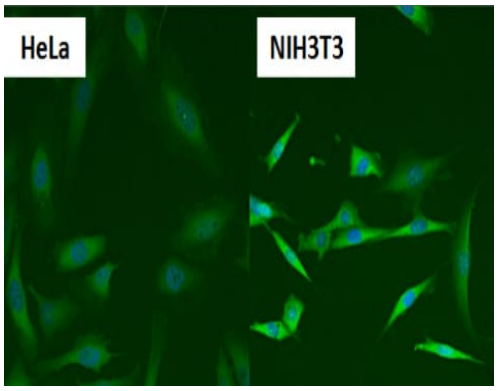
Flow Cytometry - Anti-Hsp90 beta antibody (ab2927)

Flow cytometry analysis of HSP90 was done on HeLa cells. Cells were fixed, permeabilized and stained with a HSP90 rabbit polyclonal antibody (ab2927) (blue histogram) or a rabbit IgG isotype control (black histogram) at a dilution of 10 µg/mL. After incubation for 1 hour on ice, the cells were labeled with a Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 647 conjugate at a dilution of 1/50 for 1 hour on ice. A representative 10,000 cells were acquired and analyzed for each sample.



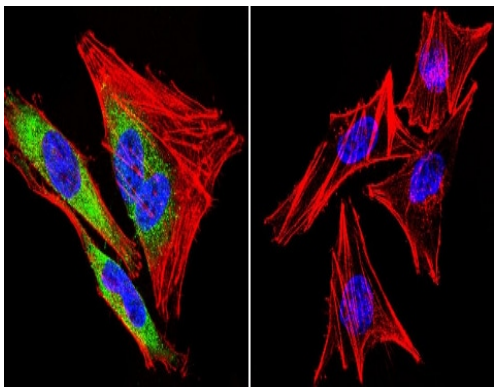
Immunocytochemistry/ Immunofluorescence - Anti-Hsp90 beta antibody (ab2927)

Immunocytochemistry/Immunofluorescence analysis of HSP90 beta shows staining in U251 cells. HSP 90 beta 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 ab2927 at a dilution of 1:100 over night at 4°C, washed with PBS and incubated with a DyLight-488 conjugated goat anti-rabbit secondary antibody. Images were taken at 60X magnification.



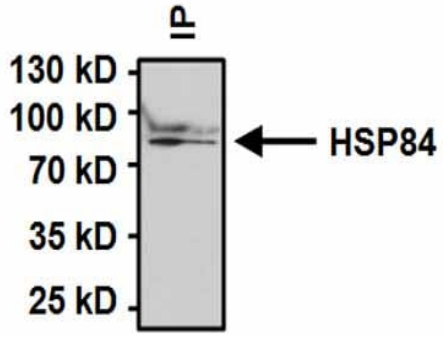
Immunocytochemistry/ Immunofluorescence - Anti-Hsp90 beta antibody (ab2927)

Immunocytochemistry/Immunofluorescence analysis of HSP90 beta (green) in HeLa and NIH3T3 cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were blocked with 1% BSA for 15 minutes at room temperature. Cells were incubated with ab2927 at a dilution of 1:50 for at least 1 hour at room temperature, washed with PBS, and incubated with a DyLight 488 goat-anti-rabbit IgG secondary antibody (1:400) for 30 minutes at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye. Images were taken at 20X magnification.



Immunocytochemistry/ Immunofluorescence - Anti-Hsp90 beta antibody (ab2927)

Immunocytochemistry/Immunofluorescence analysis of HSP90 beta shows staining in A2058 cells. HSP 90 beta 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 ab2927 at a dilution of 1:100 over night at 4°C, washed with PBS and incubated with a DyLight-488 conjugated goat anti-rabbit secondary antibody. Images were taken at 60X magnification.

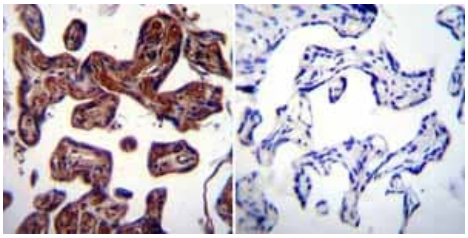


Immunoprecipitation - Anti-Hsp90 beta antibody (ab2927)

Immunoprecipitation of Hsp90 was performed on HeLa cells. Antigen:antibody complexes were formed by incubating 500µg whole cell lysate with 2µg of Hsp90 polyclonal antibody (ab2927) overnight on a rocking platform at 4°C. Immune complexes were captured on 50µl Protein A/G Agarose washed extensively and eluted with Buffer. Samples were resolved on a 4-20% Tris-HCl polyacrylamide gel, transferred to a PVDF membraneand blocked with 5% BSA/TBST for at least 1 hour. The membrane was probed with a Hsp90 polyclonal antibody (ab2927) at a dilution of 1:1000 overnight rotating at 4°C, washed in TBSTand probed with HRP detection reagent at a dilution of 1:1000 for at least one hour. Chemiluminescent detection was performed.

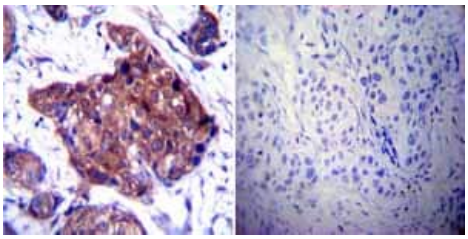
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp90 beta antibody (ab2927)

Immunohistochemistry was performed on normal biopsies of deparaffinized Human tonsil 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 1:100 with a rabbit polyclonal antibody recognizing Heat Shock Protein 84 ab2927 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp90 beta antibody (ab2927)

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 ab2927 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp90 beta antibody (ab2927)

Immunohistochemistry was performed on cancer biopsies of deparaffinized Human breast carcinoma 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 1:100 with a rabbit polyclonal antibody recognizing Heat Shock Protein 84 ab2927 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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