

Anti-Hsp90 beta antibody [H90-10] ab53497

KO 評価済

★★★★★ [3 Abreviews](#) [21 References](#) [画像数 11](#)

製品の概要

製品名	Anti-Hsp90 beta antibody [H90-10]
製品の詳細	Mouse monoclonal [H90-10] to Hsp90 beta
由来種	Mouse
特異性	Detects 90kDa. Detects HSP90 beta in all reactive species except in Chicken, where it detects both alpha and beta isoforms.
アプリケーション	適用あり: Flow Cyt, IHC-P, ICC/IF, WB
種交差性	交差種: Mouse, Human
免疫原	Recombinant full length protein corresponding to Human Hsp90 beta. Database link: P08238
ポジティブ・コントロール	WB: HEK-293T, Saos-2 and HL-60 cell lysates; Recombinant human Hsp90 beta protein. IHC-P: Human placenta, backskin and colon carcinoma tissue; mouse colon tissue. ICC/IF: HeLa cells. Flow Cyt: HeLa cells.
特記事項	<p>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.</p> <p>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</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
精製度	Protein G purified
ポリ/モノ	モノクローナル

クローン名 H90-10
アイソタイプ IgG2a

アプリケーション

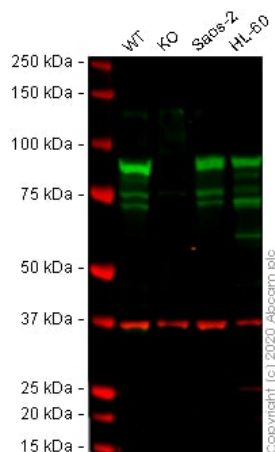
The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab53497の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt		Use 0.5µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
IHC-P	★★★★★ (1)	1/100.
ICC/IF		Use at an assay dependent concentration.
WB	★★★★★ (2)	1/2500. Predicted molecular weight: 83 kDa.

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 [H90-10]
(ab53497)

All lanes : Anti-Hsp90 beta antibody [H90-10] (ab53497) at 1/5000 dilution

Lane 1 : Wild-type HEK-293T cell lysate

Lane 2 : HSP90AB1 knockout HEK-293T cell lysate

Lane 3 : Saos-2 cell lysate

Lane 4 : HL-60 cell lysate

Lysates/proteins at 20 µg per lane.

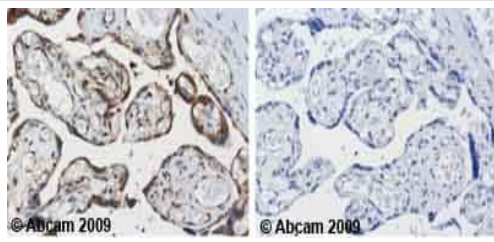
Performed under reducing conditions.

Predicted band size: 83 kDa

Observed band size: 85 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab53497 observed at 85 kDa. Red - loading control **ab181602** (Rabbit Anti-GAPDH antibody [EPR16891]) observed at 37kDa.

ab53497 was shown to react with Hsp90 beta in wild-type HEK-293T cells in western blot with loss of signal observed in HSP90AB1 knockout cell line **ab266117** (HSP90AB1 knockout cell lysate **ab257190**). Wild-type and HSP90AB1 knockout HEK-293T cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween®) before incubation with ab53497 and **ab181602** (Rabbit Anti-GAPDH antibody [EPR16891]) overnight at 4°C at a 1 in 5000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

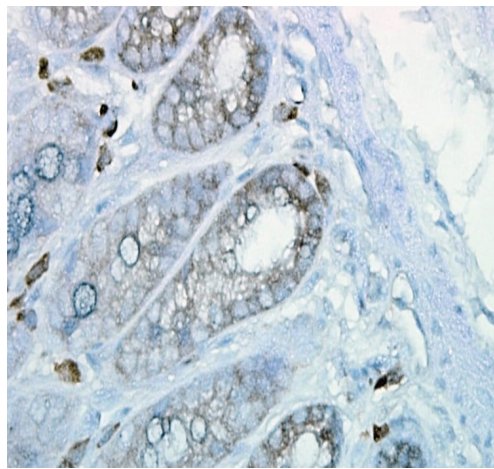


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp90 beta antibody [H90-10] (ab53497)

Ab53497 staining Human normal placenta. Staining is localized to cytoplasmic compartment.

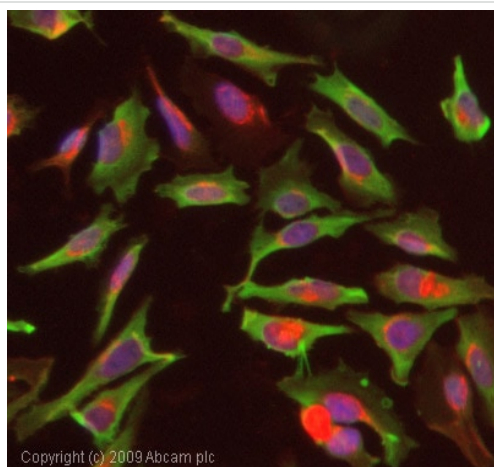
Left panel: with primary antibody at 2 ug/ml. Right panel: isotype control.

Sections were stained using an automated system DAKO Autostainer Plus , at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 AR buffers EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H₂O₂ in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp90 beta antibody [H90-10] (ab53497)

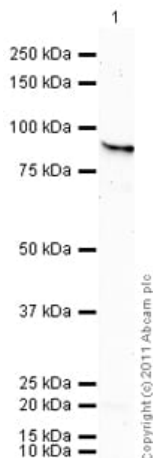
Immunohistochemistry analysis of formalin-fixed paraffin-embedded inflamed mouse colon using ab53497 at 1/10000. Primary antibody was incubated for 12 hours at 4°C. Secondary Antibody was a Biotin Goat Anti-Mouse at 1/2000 dilution incubated for 1 hour at room temperature. Counterstain was Mayer Hematoxylin (purple/blue) nuclear stain at 200 µl for 2 minutes at room temperature. Magnification: 40x.



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Immunocytochemistry/ Immunofluorescence - Anti-Hsp90 beta antibody [H90-10] (ab53497)

ICC/IF image of ab53497 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab53497, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



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Western blot - Anti-Hsp90 beta antibody [H90-10] (ab53497)

Anti-Hsp90 beta antibody [H90-10] (ab53497) at 1 µg/ml + Recombinant human Hsp90 beta protein (Active) ([ab80033](#)) at 0.1 µg

Secondary

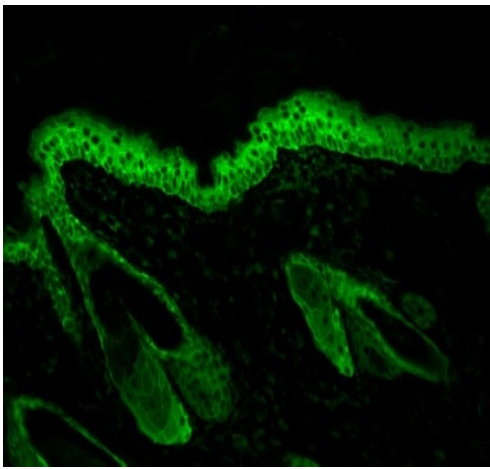
Goat Anti-Mouse IgG H&L (HRP) preadsorbed ([ab97040](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

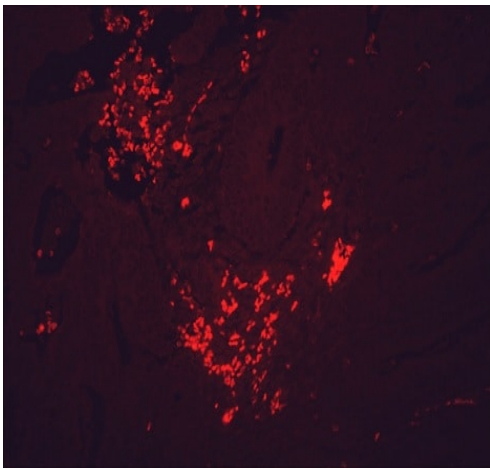
Predicted band size: 83 kDa

Exposure time: 8 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp90 beta antibody [H90-10] (ab53497)

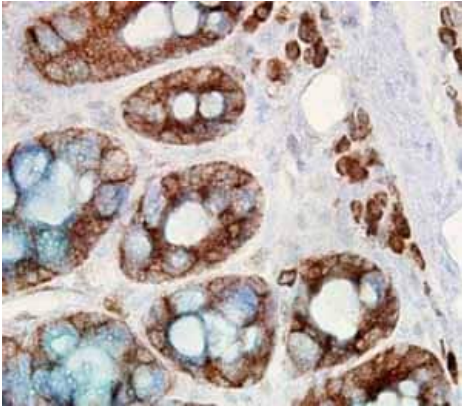
Paraffin-embedded mouse backskin (epidermis) tissue fixed with Bouin's fixative, stained for Hsp90 beta using ab53497 at 1/100 dilution in immunohistochemical analysis. Primary antibody was incubated for 1 hour at room temperature. Secondary antibody was a FITC-conjugated goat anti-mouse (green) at 1/50 dilution incubated for 1 hour at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp90 beta antibody [H90-10] (ab53497)

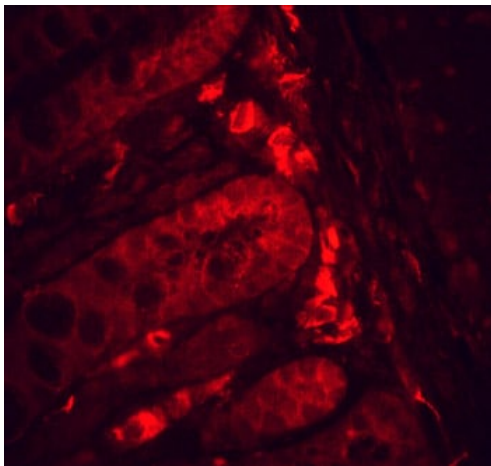
Formalin-fixed, paraffin-embedded human colon carcinoma tissue stained for Hsp90 beta using ab53497 at 1/10000 in immunohistochemical analysis. Primary antibody was incubated for 12 hours at 4°C. Secondary antibody was an Alexa Fluor® 555 goat anti-mouse (red) at 1/5000 dilution incubated for 1 hour at room temperature.

40x magnification.



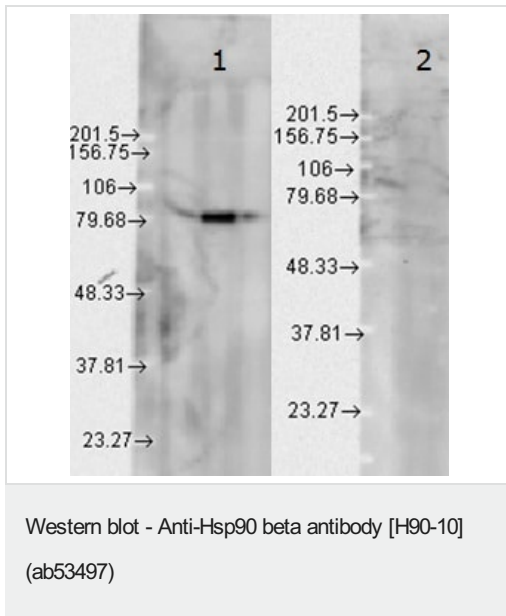
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp90 beta antibody [H90-10] (ab53497)

ab53497 at 100,000 dilution staining Hsp90 in human colon cancer tissue section by immunohistochemistry (Formalin/ PFA fixed paraffin-embedded tissue sections). A antibody amplifier™ system was used for staining. A HRP-conjugated secondary antibody was used at 1/10 dilution



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp90 beta antibody [H90-10] (ab53497)

ab53497 at 100,000 dilution staining Hsp90 beta in mouse colon tissue section by immunohistochemistry (Formalin/ PFA fixed paraffin-embedded tissue sections). A antibody amplifier™ system was used for staining. An Alexa Fluor® 568 conjugated secondary antibody was used at 1/10 dilution.



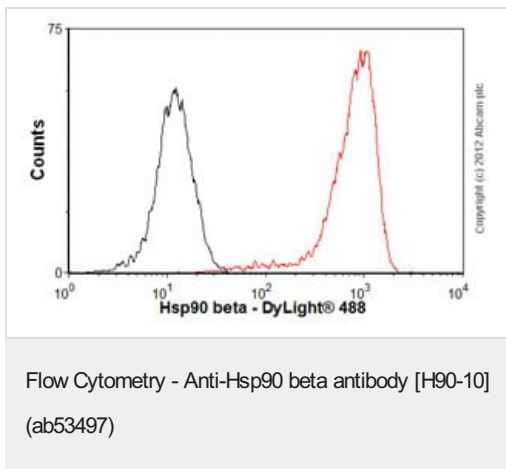
All lanes : Anti-Hsp90 beta antibody [H90-10] (ab53497)

Lane 1 : Hsp90 beta protein

Lane 2 : Hsp90 alpha protein

Lysates/proteins at 2 µg per lane.

Predicted band size: 83 kDa



Overlay histogram showing HeLa cells stained with ab53497 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab53497, 0.5µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] ([ab91361](#), 1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

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