abcam

Product datasheet

Anti-Hsp90 beta antibody [E296] ab32568

敲除验证 重组 RabMAb

16 References 10 图像

概述

产品名称	Anti-Hsp90 beta抗体[E296]
描述	兔单克隆抗体[E296] to Hsp90 beta
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P, ICC/IF **不适用于:** Flow Cyt
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide within Human Hsp90 beta aa 1-100 (N terminal). The exact sequence is proprietary.
阳性对照	WB: Saos-2, HL-60, HEK293T, Jurkat, SH-SY5Y, Raji, A431 and HeLa whole cell lysate (**ab150035**); Mouse brain and heart tissue lysates; Rat brain and heart tissue lysates. IHC-P: Stomach and urinary bladder carcinoma tissues. ICC/IF: HepG2 cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	E296

同种型 IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab32568**于以下的**经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/100000 - 1/500000. Detects a band of approximately 92 kDa (predicted molecular weight: 83 kDa). **For unpurified, use 1/500.**
IHC-P		1/150. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
ICC/IF		1/100.

应用说明 Is unsuitable for Flow Cyt.

靶标

功能 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.

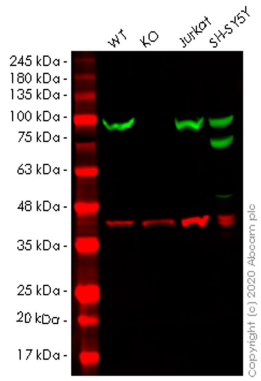
序列相似性 Belongs to the heat shock protein 90 family.

结构域 The TPR repeat-binding motif mediates interaction with TPR repeat-containing proteins.

翻译后修饰 Ubiquitinated in the presence of STUB1-UBE2D1 complex (in vitro).
ISGylated.
S-nitrosylated; negatively regulates the ATPase activity.

细胞定位 Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

图片



Western blot - Anti-Hsp90 beta antibody [E296] (ab32568)

All lanes : Anti-Hsp90 beta antibody [E296] (ab32568) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate
Lane 2 : HSP90AB1 knockout HEK293T cell lysate
Lane 3 : Jurkat cell lysate
Lane 4 : SH-SY5Y cell lysate

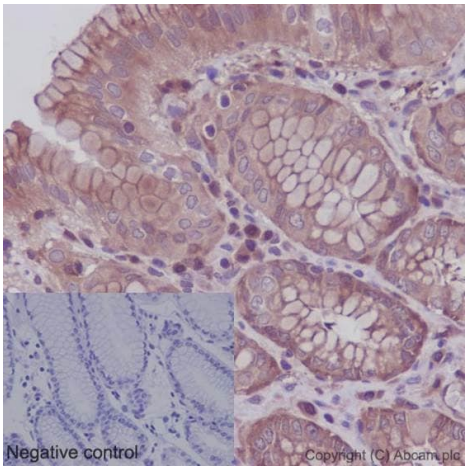
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 83 kDa
Observed band size: 90 kDa

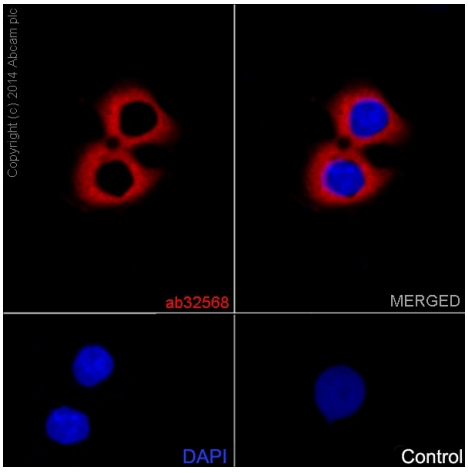
Lanes 1-4: Merged signal (red and green). Green - ab32568 observed at 90 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab32568 Anti-Hsp90 beta antibody [E296] was shown to specifically react with Hsp90 beta in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266117** (knockout cell lysate **ab257190**) was used. Wild-type and Hsp90 beta knockout samples were subjected to SDS-PAGE. ab32568 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



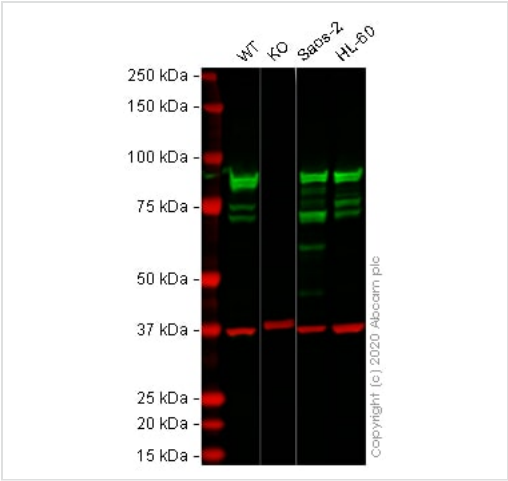
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp90 beta antibody [E296] (ab32568)

Immunohistochemical staining of paraffin embedded human stomach with purified ab32568 at a working dilution of 1 in 150. The secondary antibody used is a HRP polymer for rabbit IgG. The sample is counter-stained with hematoxylin. Antigen retrieval was perfomed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



Immunocytochemistry/ Immunofluorescence - Anti-Hsp90 beta antibody [E296] (ab32568)

Immunofluorescence staining of HepG2 cells with purified ab32568 at a working dilution of 1 in 100, counter-stained with DAPI. The secondary antibody was Alexa Fluor® 555 goat anti rabbit (**ab150082**), used at a dilution of 1 in 400. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative control is shown in bottom right hand panel - for the negative control, purified ab32568 was used at a dilution of 1/200 followed by an Alexa Fluor® 488 goat anti-mouse antibody at a dilution of 1/500.



Western blot - Anti-Hsp90 beta antibody [E296] (ab32568)

All lanes : Anti-Hsp90 beta antibody [E296] (ab32568) at 1/200000 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

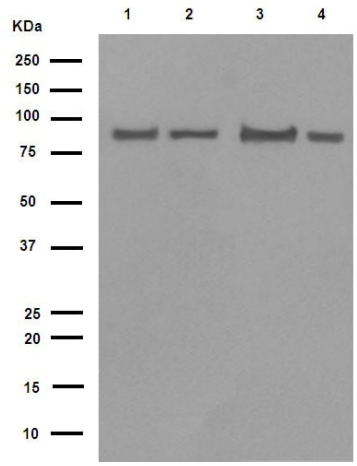
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 83 kDa
Observed band size: 85 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab32568 observed at 85 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab32568 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 ab32568 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 200000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Hsp90 beta antibody [E296] (ab32568)

All lanes : Anti-Hsp90 beta antibody [E296] (ab32568) at 1/100000 dilution (purified)

Lane 1 : Mouse brain tissue lysate
Lane 2 : Mouse heart tissue lysate
Lane 3 : Rat brain tissue lysate
Lane 4 : Rat heart tissue lysate

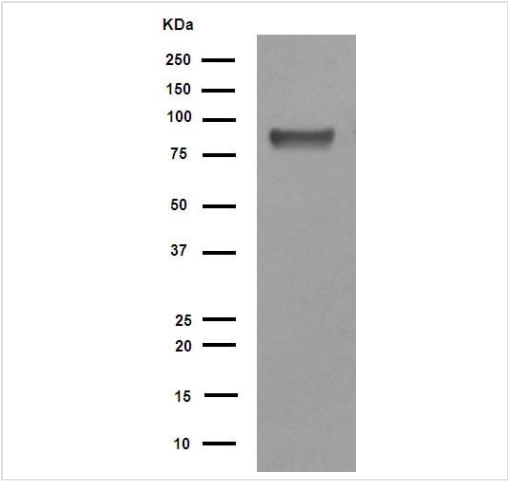
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 83 kDa
Observed band size: 90 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-Hsp90 beta antibody [E296] (ab32568)

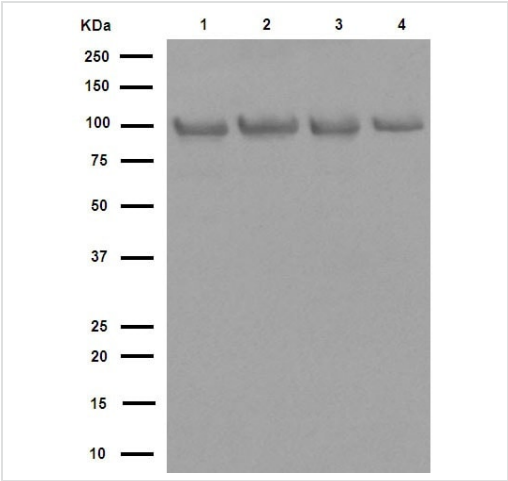
Anti-Hsp90 beta antibody [E296] (ab32568) at 1/100000 dilution (purified) + SH-SH5Y cell lysate at 20 µg

Secondary

HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 83 kDa

Observed band size: 90 kDa



Western blot - Anti-Hsp90 beta antibody [E296] (ab32568)

All lanes : Anti-Hsp90 beta antibody [E296] (ab32568) at 1/100000 dilution (purified)

Lane 1 : HeLa cell lysate

Lane 2 : Jurkat cell lysate

Lane 3 : Raji cell lysate

Lane 4 : A431 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

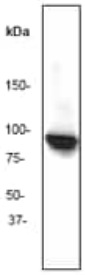
All lanes : HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 83 kDa

Observed band size: 90 kDa

Blocking buffer: 5% NFDM/TBST

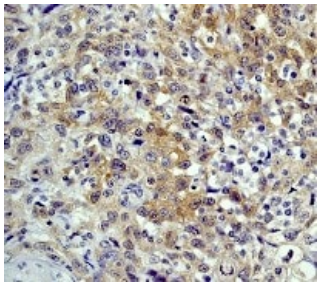
Dilution buffer: 5% NFDM/TBST



Western blot - Anti-Hsp90 beta antibody [E296] (ab32568)

Anti-Hsp90 beta antibody [E296] (ab32568) at 1/500 dilution (unpurified) + Hela cell lysate

Predicted band size: 83 kDa
Observed band size: 92 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp90 beta antibody [E296] (ab32568)

Immunohistochemical analysis of paraffin-embedded human urinary bladder carcinoma using unpurified ab32568 at 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Anti-Hsp90 beta antibody [E296] (ab32568)

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