Anti-Hsp90 antibody ab13495

Overview

Product name: Anti-Hsp90 antibody
Description: Rabbit polyclonal to Hsp90
Host species: Rabbit
Specificity: Detects 90kD proteins corresponding to the molecular mass of hsp90aß.

Tested applications:
- Suitable for: ELISA, IP, IHC-P, IHC-Fr, ICC/IF, ICC, Flow Cyt, WB

Species reactivity:
- Reacts with: Mouse, Rat, Human, Xenopus laevis

Immunogen: Human Hsp90.

Positive control:
- RAW 264.7 whole cell lysate (ab7187) can be used as a positive control in WB. HeLa Cell Lysate (Heat Shocked). Hsp90 Protein.

Properties

Form: Liquid
Storage buffer: Constituent: Whole serum
Purity: Protein A purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab13495 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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IP | Use at an assay dependent concentration.
**Function**
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.

**Sequence similarities**
Belongs to the heat shock protein 90 family.

**Domain**
The TPR repeat-binding motif mediates interaction with TPR repeat-containing proteins like the co-chaperone STUB1.

**Post-translational modifications**
ISGylated.
S-nitrosylated; negatively regulates the ATPase activity and the activation of eNOS by HSP90AA1.

**Cellular localization**
Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

**Images**
All lanes: Anti-Hsp90 antibody (ab13495) at 1/10000 dilution (2 hours at room temperature)

Lane 1: A431 with BSA for 30 minutes at room temperature
Lane 2: A549 with BSA for 30 minutes at room temperature
Lane 3: HCT116 with BSA for 30 minutes at room temperature
Lane 4: Hela with BSA for 30 minutes at room temperature
Lane 5: HEK293 with BSA for 30 minutes at room temperature
Lane 6: HepG2 with BSA for 30 minutes at room temperature
Lane 7: HL-60 with BSA for 30 minutes at room temperature
Lane 8: HUVEC with BSA for 30 minutes at room temperature
Lane 9: Jurkat with BSA for 30 minutes at room temperature
Lane 10: MCF7 with BSA for 30 minutes at room temperature
Lane 11: PC3 with BSA for 30 minutes at room temperature
Lane 12: T98G with BSA for 30 minutes at room temperature

Lysates/proteins at 2 µg per lane.

Blocking peptides at 1.5 % per lane.

Secondary
All lanes: HRP Donkey anti-rabbit IgG, 1 hour at room temperature

Predicted band size: 83.2 (beta), 84.5 (alpha) kDa
ab13495 staining Hsp90 in murine RAW 264.7 cells by Immunocytochemistry/ Immunofluorescence. Cells were fixed in paraformaldehyde, permeabilized using 0.1% Triton-X100 in 2% BSA for 15 minutes, blocked with 2% BSA for 1 hour at 4°C and then incubated with ab13495 at a 1/150 dilution. The secondary used was an Alexa-Fluor 488 conjugated chicken anti-rabbit IgG (H+L) used at a 1/500 dilution.

ab13495 staining Hsp90 in Mouse backskin tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with Bouin's fixative solution. Samples were incubated with primary antibody (1/100) for 1 hour at room temperature. A FITC-conjugated Goat anti-rabbit IgG polyclonal (1/50) was used as the secondary antibody.
**Immunocytochemistry/ Immunofluorescence - Anti-Hsp90 antibody (ab13495)**

This image was kindly supplied by Dr Mahesh Shivananjappa by Abreview.

**ab13495** at a 1/100 dilution staining Hsp90 in human PMN cells by Immunocytochemistry/ Immunofluorescence incubated for 4 hours at 37°C. PFA fixed. Blocked using 2% BSA for 1 hour at 22°C. Secondary used at 1/250 polyclonal Goat anti-rabbit IgG (H+L) conjugated to Alexa Fluor 568 (ab175471). Left image: DAPI staining nuclei (blue) Middle image: Hsp90 (red) Right image: Overlay

**Flow Cytometry - Anti-Hsp90 antibody (ab13495)**

Image courtesy of Dr Mahesh Shivananjappa by Abreview.

**ab13495** staining Hsp90 in Human platelet cells by Flow cytometry. Cells were fixed in paraformaldehyde and permeabilized using 0.1% Triton-X-100 in 2% BSA for 15 minutes. Primary antibody used at a 1/250 dilution and incubated for 18 hours at 4°C. The secondary antibody used was an Alexa Fluor®488 conjugated chicken anti-rabbit IgG (H+L) at a 1/500 dilution.

P : Permeabilized; US : Unstained, Red Peak; IgG RB : IgG Rabbit (Isotype Control) ab171870, Blue Peak; HSP90, Green peak.

**Western blot - Anti-Hsp90 antibody (ab13495)**

Image courtesy of Dr Mahesh Shivananjappa by Abreview.

Anti-Hsp90 antibody (ab13495) at 1/1000 dilution + whole cell lysate prepared from human platelets treated with A23187 for 1 hour at 20 µg

**Secondary**

HRP conjugated goat anti-rabbit polyclonal at 1/10000 dilution

Developed using the ECL technique.

**Predicted band size:** 83.2 (beta), 84.5 (alpha) kDa

**Observed band size:** 90 kDa

**why is the actual band size different from the predicted?**

**Additional bands at:** 36 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 5 minutes
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