

Product Name: KD-Validated Hsp90 Beta Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01520

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 83.3kDa

Antigen Information

Gene Name	HSP90AB1 HSP90AB1; Heat Shock Protein 90 Alpha Family Class B Member 1; HSPC2; HSPCB; Heat Shock Protein 90kDa Alpha (Cytosolic), Class B Member 1; Heat Shock 90kD Protein 1, Beta;
Alternative Names	Heat Shock Protein HSP 90-Beta; Heat Shock 84 KDa; HSP90B; HSP84; Heat Shock Protein 90kDa Alpha Family Class B Member 1; Heat Shock 90kDa Protein 1, Beta; Heat Shock Protein 90 KDa; HSP90-Beta; D6S182; HSP 90; HSP 84
Gene ID	3326.0
SwissProt ID	P08238
Immunogen	A synthesized peptide derived from human Hsp90 beta

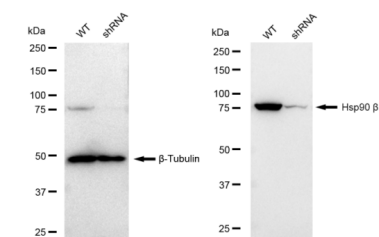
Background

This gene encodes a member of the heat shock protein 90 family; these proteins are involved in signal transduction, protein folding and degradation and morphological evolution. This gene encodes the constitutive form of the cytosolic 90 kDa heat-shock protein and is thought to play a role in gastric apoptosis and inflammation. Alternative splicing results in multiple transcript variants. Pseudogenes have been identified on multiple chromosomes. [provided by RefSeq, Dec 2012]

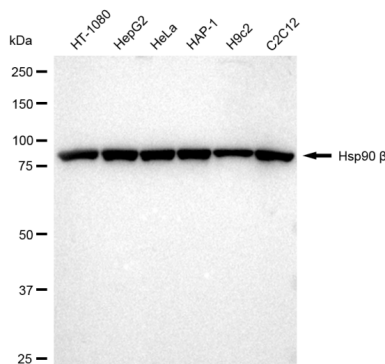
Research Area

Signal Transduction

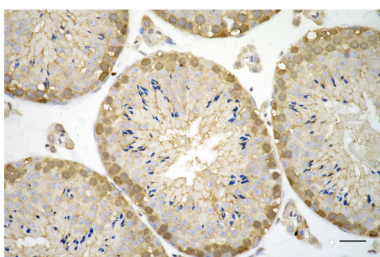
Image Data



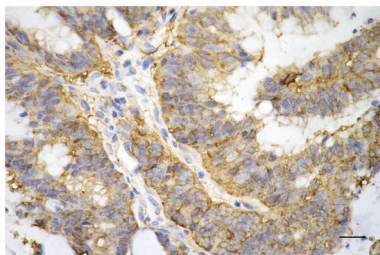
Western blotting analysis using Hsp90 beta antibody (KVA01520). Hsp90 beta expression in wild type (WT) and Hsp90 beta shRNA knockdown (KD) 293T cells with 30 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Hsp90 beta antibody (KVA01520, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



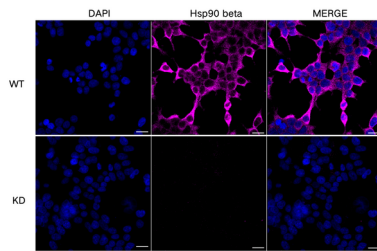
Western blotting analysis using Hsp90 beta antibody (KVA01520). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Hsp90 beta antibody (KVA01520, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



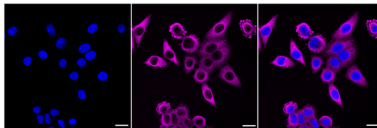
Immunohistochemistry was performed on paraffin-embedded mouse testis tissue using hsp90 beta antibody (KVA01520, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40 $\times$ objective). Scale bar: 25 μ m.



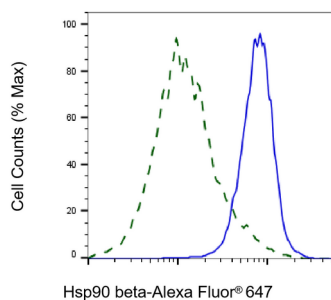
Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using hsp90 beta antibody (KVA01520, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40 $\times$ objective). Scale bar: 25 μ m.



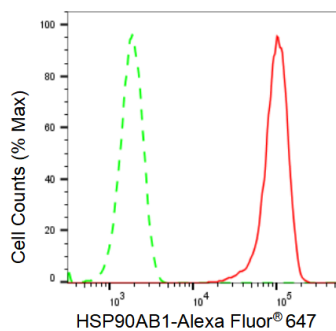
Immunocytochemical staining of 293T cells using Hsp90 beta antibody (KVA01520, 1:1,000), Top panel: wild-type (WT); Bottom panel: Hsp90 beta shRNA knockdown (KD). Nuclei were stained blue with DAPI; Hsp90 beta was stained magenta with Alexa Fluor® 647. Scale bar, 20 μm.



Immunocytochemical staining of HepG2 cells with Hsp90 beta antibody (KVA01520, 1:1,000). Nuclei were stained blue with DAPI; Hsp90 beta was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μm.



Validation of Hsp90 beta knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) 293T cells were stained with Hsp90 beta antibody (KVA01520, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Hsp90 beta expression in HepG2 cells using Hsp90 beta antibody (KVA01520, 1:2,000). Green, isotype control; red, Hsp90 beta.