

Anti-Hsp90 beta Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

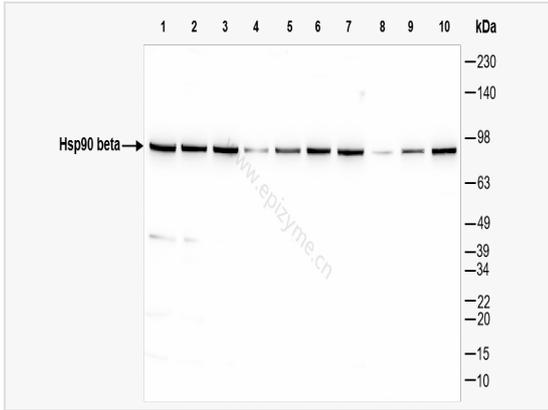
Catalog # R014520

Product Information

Application	IF (Cell)/ICC, IHC-P/IF (Tissue-P), WB, ELISA
Reactivity	Rat, Human, Mouse
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	34B09J15
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Hsp90 beta
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Hsp90 beta Rabbit mAb [34B09J15] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	90 kda heat shock protein beta HSP90 beta, D6S182, FLJ26984, Heat shock 84 kDa, Heat shock 90kD protein 1, beta, Heat shock 90kDa protein 1 beta, Heat shock protein 90 alpha family class B member 1, Heat shock protein 90 kDa, Heat shock protein 90kDa alpha (cytosolic) class B member 1, Heat shock protein 90kDa alpha family class B member 1, Heat shock protein beta, Heat shock protein HSP 90 beta, Heat shock protein HSP 90-beta, HS90B_HUMAN, HSP 84, HSP 90, HSP 90 b, HSP 90b, HSP84, HSP90 BETA, hsp90ab1, HSP90B, HSPC2, HSPCB.
Calculated MW	Calculated MW: 83 kDa; Observed MW: 85 kDa
Uniprot ID	P08238
Gene ID	3326
Background	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.
Cellular Location	Cytoplasm. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.



Western Blot - Anti-Hsp90 beta Rabbit mAb [34B09J15]

All lanes: R014520 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates

Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 7: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 8: Mouse muscle whole tissue lysates

Lane 9: Rat brain whole tissue lysates

Lane 10: Rat heart whole tissue lysates

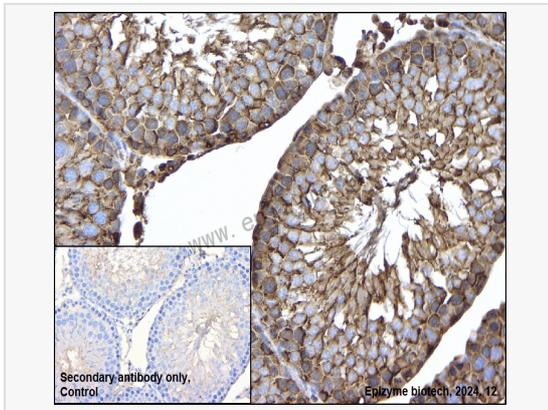
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 83 kDa

Observed band size: 85 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Hsp90 beta Rabbit mAb [34B09J15]

Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014520 at 1:200 dilution

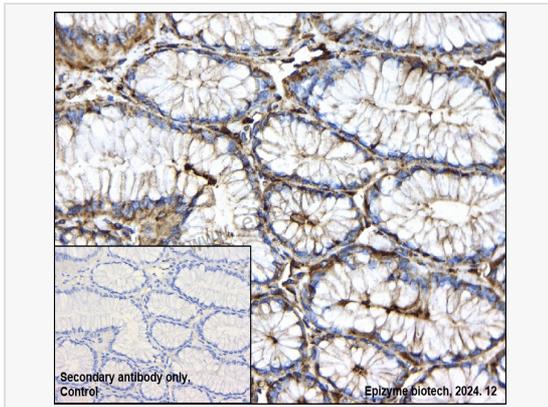
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Hsp90 beta Rabbit mAb [34B09J15]

Sample: Paraformaldehyde-fixed, paraffin embedded human gastric cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014520 at 1:200 dilution

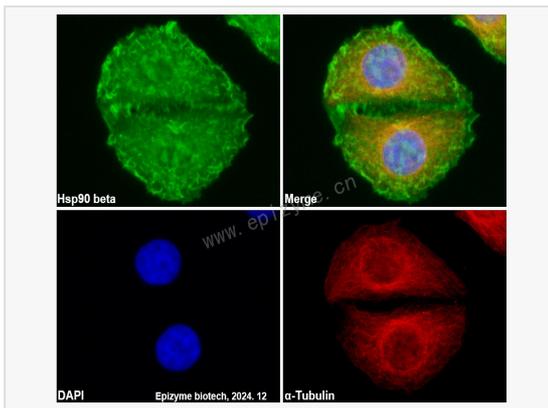
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Hsp90 beta Rabbit mAb [34B09J15]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

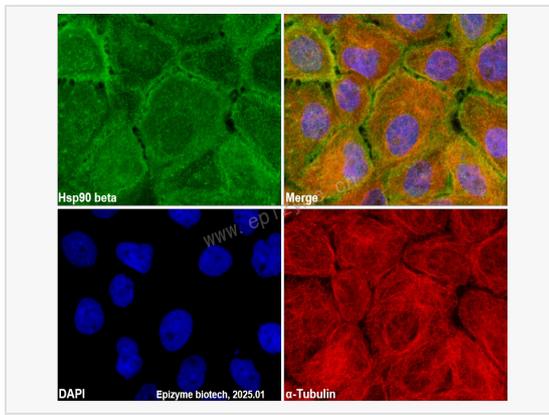
Primary antibodies: R014520 at 1:100 dilution and α -tubulin Mouse Monoclonal

Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and

Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunofluorescence - Anti-Hsp90 beta Rabbit mAb [34E09J15]

Sample: A431 cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014520 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).