

Rabbit Anti-HSP90 beta antibody

SL0135R

Product Name HSP90 beta

Chinese Name 热休克蛋白 90 β /HSP90 β 抗体

Alias HSP90 beta; D6S182; FLJ26984; Heat shock 90kD protein 1, beta; Heat shock protein 90kDa alpha (cytosolic) class B member 1; Heat shock protein beta; Heat shock protein HSP 90 beta; HSP 84; HSP84; HSP 90; HSP-90 BETA; HSP90B; HSPC2; HSPCB; HS90B_HUMAN; Heat shock protein HSP 90-beta; Heat shock 84 kDa.

Research Area Tumour Cell biology immunology Signal transduction Apoptosis

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Mouse, Rat, (predicted: Chicken, Dog, Pig, Cow,)

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
(Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 84kDa

Cellular localization cytoplasmic

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human HSP90 beta: 635-724/724

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

[PubMed](#)

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].

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.

Subunit:

Homodimer. Interacts with p53/TP53. Forms a complex with CDK6 and Hsp90/HSP90AB1. Interacts with UNC45A. Binding to UNC45A involves 2 UNC45A monomers per HSP90AB1 dimer. Interacts with CHORDC1 and DNAJC7. Interacts with FKBP4.

**Product
Detail**

Subcellular Location:

Cytoplasm. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Post-translational modifications:

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

Similarity:

Belongs to the heat shock protein 90 family.

SWISS:

P08238

Gene ID:

3326

Database links:

[Entrez Gene: 3326](#) Human

[Entrez Gene: 15516](#) Mouse

[Entrez Gene: 301252](#) Rat

[Omim: 140572](#) Human

[SwissProt: P08238](#) Human

[SwissProt: P11499](#) Mouse

[SwissProt: P34058](#) Rat

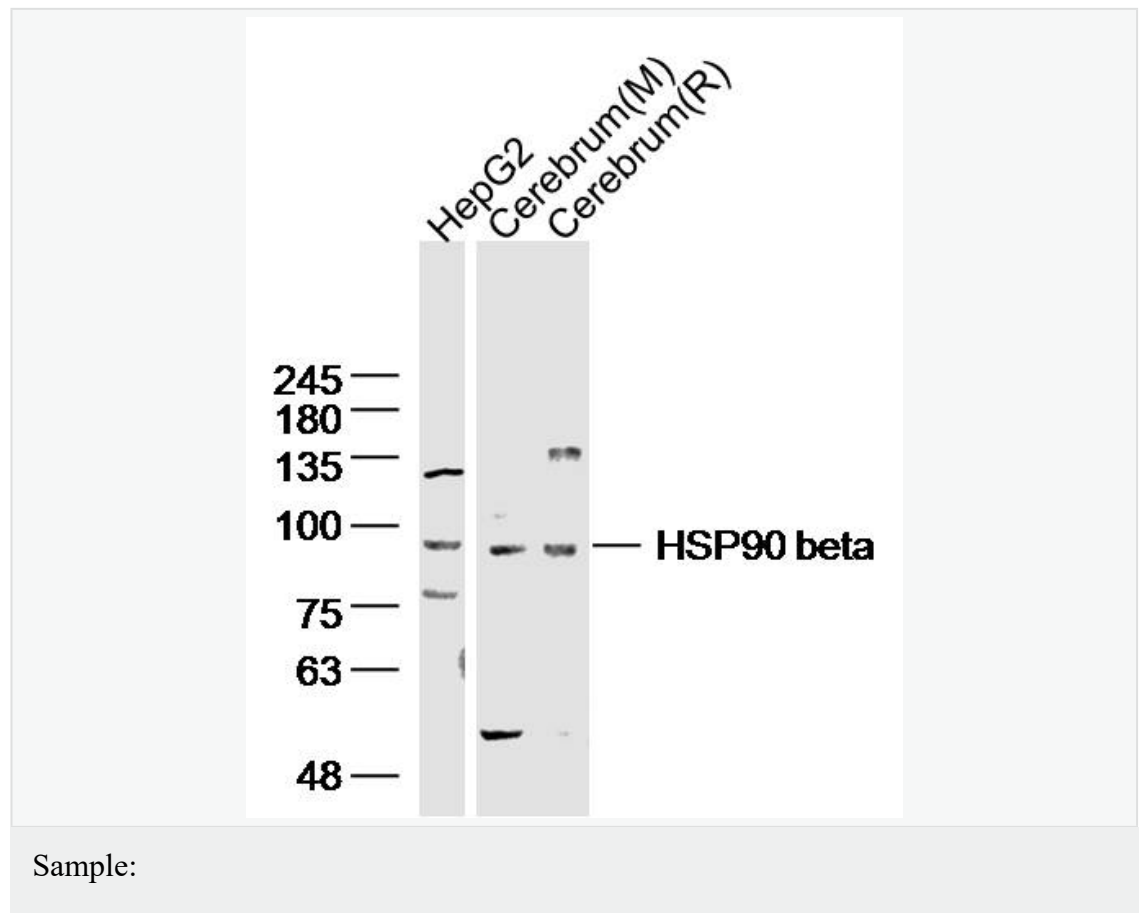
[Unigene: 509736](#) Human

[Unigene: 2180](#) Mouse

[Unigene: 98667](#) Rat

HSP 是细胞受应激原刺激后诱导产生的一组应激蛋白，与 Tumour 发生、增殖及分化有关，HSP90 β 能够抑制 Apoptosis 与分化。

Product
Picture



HepG2 Cell Lysate at 40 ug

Cerebrum (Mouse) Lysate at 40 ug

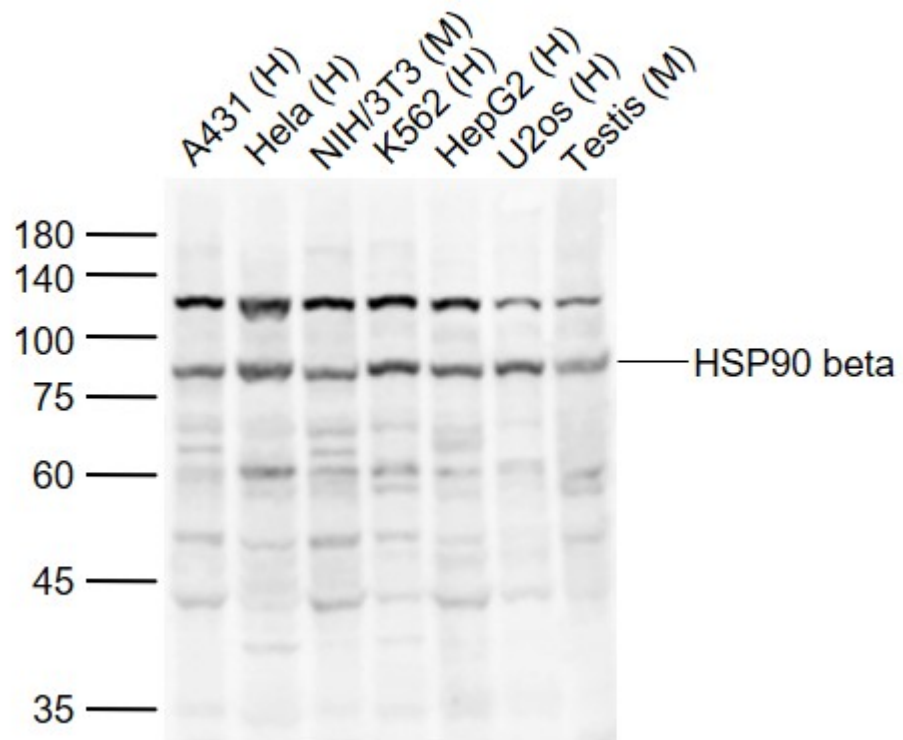
Cerebrum (Rat) Lysate at 40 ug

Primary: Anti- HSP90 beta (SL0135R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 84kD

Observed band size: 90kD



Sample:

Lane 1: A431 (Human) Cell Lysate at 30 ug

Lane 2: HeLa (Human) Cell Lysate at 30 ug

Lane 3: NIH/3T3 (Mouse) Cell Lysate at 30 ug

Lane 4: K562 (Human) Cell Lysate at 30 ug

Lane 5: HepG2 (Human) Cell Lysate at 30 ug

Lane 6: U2os (Human) Cell Lysate at 30 ug

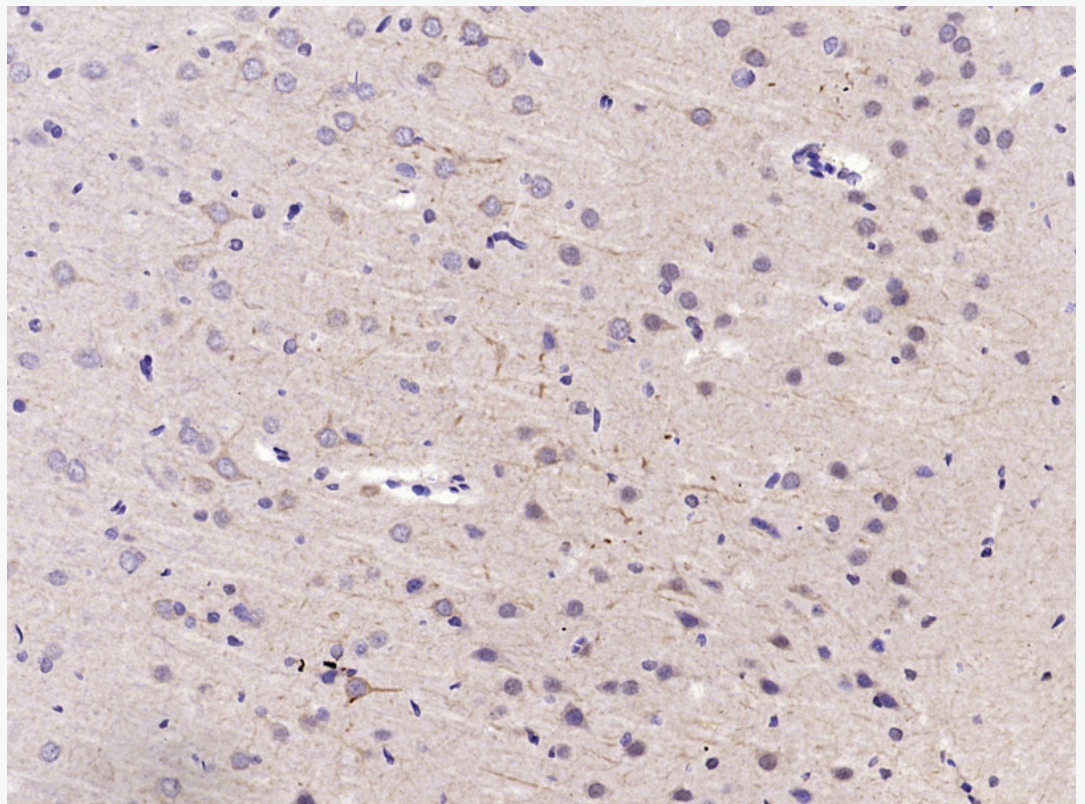
Lane 7: Testis (Mouse) Lysate at 40 ug

Primary: Anti-HSP90 beta (SL0135R) at 1/1000 dilution

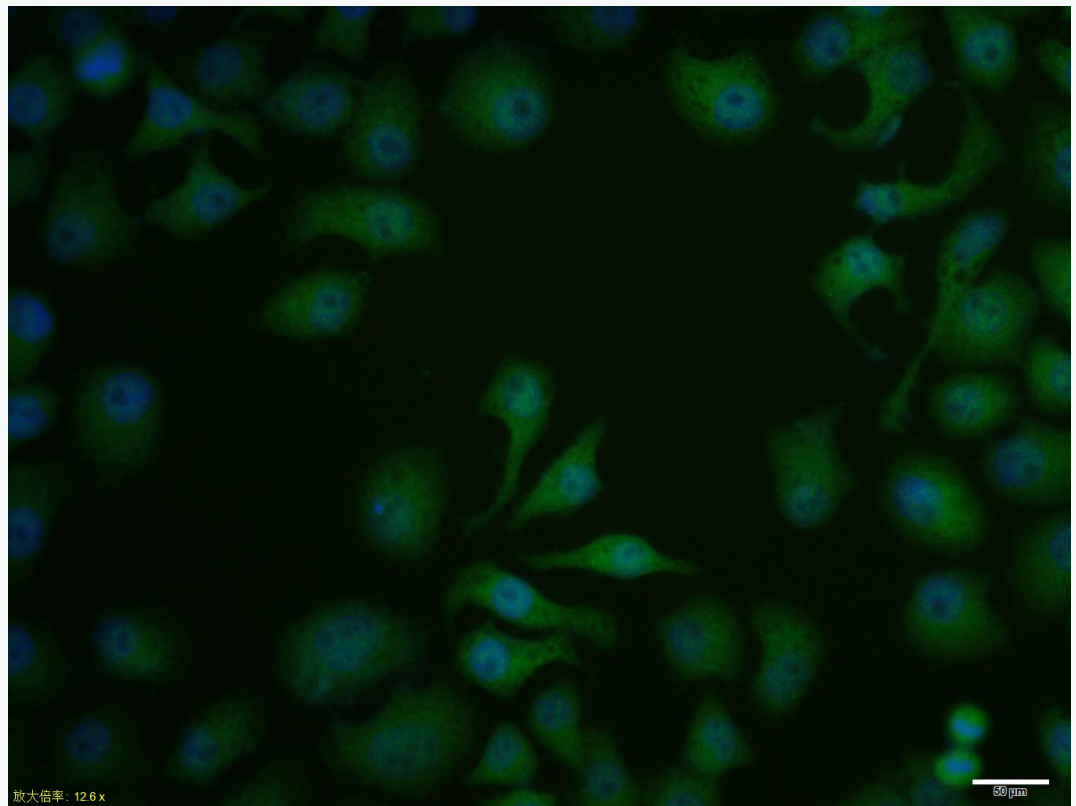
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 84-90 kD

Observed band size: 84 kD

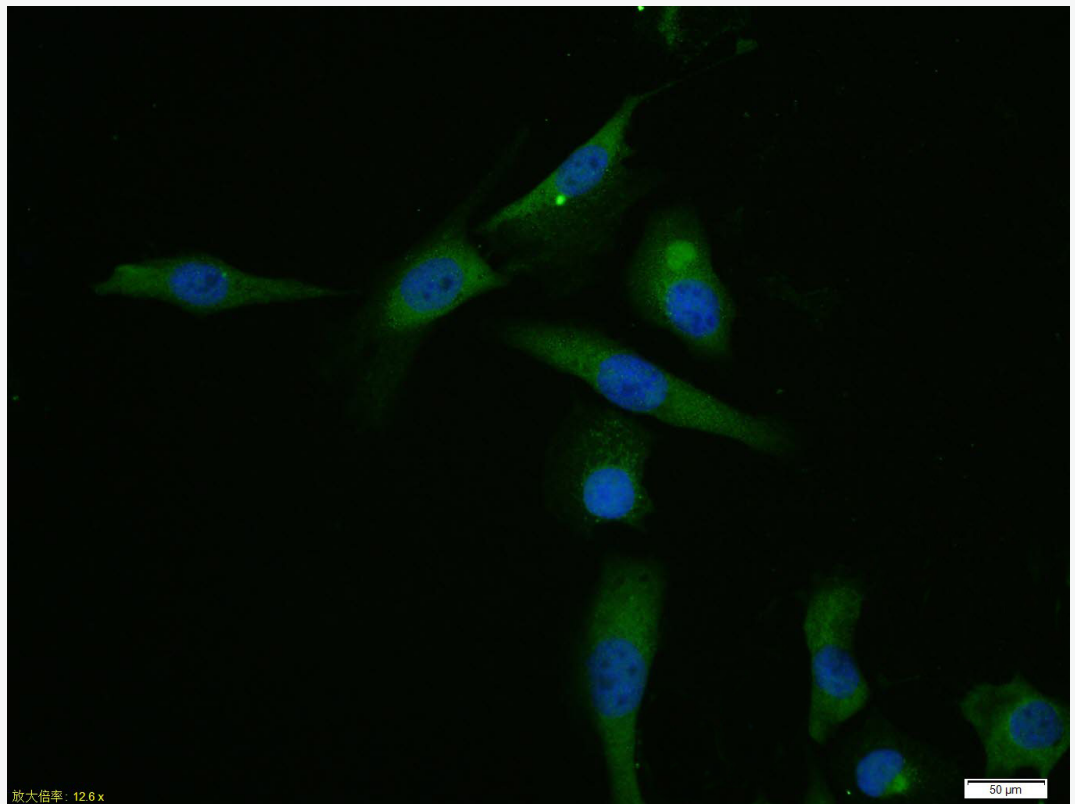


Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (HSP90 beta) Polyclonal Antibody, Unconjugated (SL0135R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.



HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (HSP90 beta) polyclonal Antibody, Unconjugated (SL0135R) 1:100,

90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



U2OS cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (HSP90 beta) polyclonal Antibody, Unconjugated (SL0135R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.