

Anti-Hsp90 alpha Antibody

R1510-29



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell, IHC-P, FC
Molecular Wt:	Predicted band size: 85kDa

Description: The heat shock response was first described for *Drosophila* salivary gland cells and morphologically consists of a change in their polytene chromosome puffing patterns that involves de novo synthesis of a few proteins. Similar heat shock proteins were later discovered in bacterial chicken and mammalian cells, and have been subsequently studied in other organisms. A series of proteins including HSP 90, HSP 70, HSP 20-30 and ubiquitin are induced by insults such as temperature shock, chemicals and other environmental stress. A major function of HSP 90 and other HSPs is to act as molecular chaperones. HSP 90 forms a complex with glucocorticoid receptor (GR), rendering the non ligand-bound receptor transcriptionally inactive. HSP 90 binds the GR as a heterocomplex composed of either HSP 56 or Cyclophilin D, forming an aporeceptor complex. HSP 90 also exists as a dimer with other proteins such as p60/sti1 and p23, forming an apo-receptor complex with estrogen and androgen receptors.

Immunogen: Synthetic peptide within N-terminal human Hsp90 alpha.

Positive control: HeLa, PC-12, NIH/3T3, HepG2, C2C12, mouse kidney tissue, human kidney tissue, mouse testis tissue.

Subcellular location: Nucleus, Cytoplasm, Melanosome, Cell membrane, Mitochondrion.

Database links: SwissProt: P07900 Human | P07901 Mouse | P82995 Rat

Recommended Dilutions:

WB	1:1,000-1:5,000
IF-Cell	1:50-1:200
IHC-P	1:50-1:200
FC	1:50-1:100

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

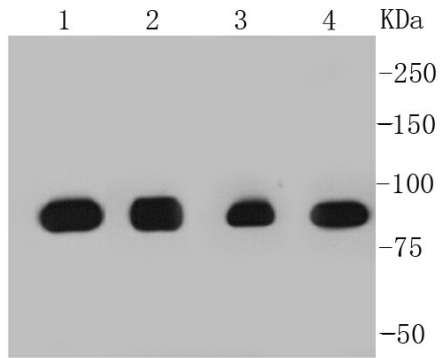


Fig1: Western blot analysis on different cell lysates using anti-HSP90 alpha rabbit polyclonal antibody. **Positive control:**

Lane 1: Hela

Lane 2: 293T

Lane 3: PC-12

Lane 4: NIH/3T3

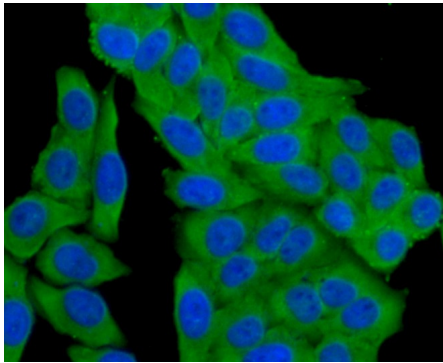


Fig2: Immunocytochemical staining of HepG2 cells using anti-HSP90 alpha rabbit polyclonal antibody.

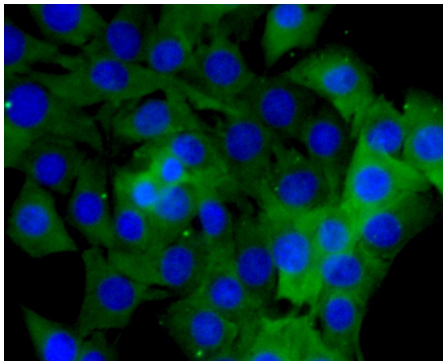


Fig3: Immunocytochemical staining of C2C12 cells using anti-HSP90 alpha rabbit polyclonal antibody.

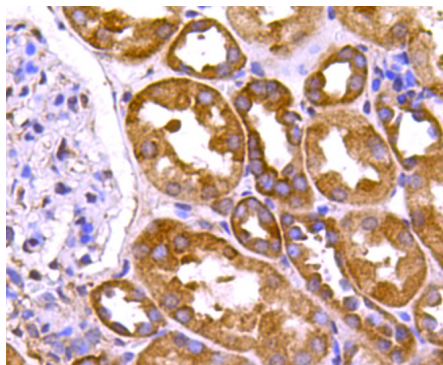


Fig4: Immunohistochemical analysis of paraffin- embedded human kidney tissue using anti-HSP90 alpha rabbit polyclonal antibody.

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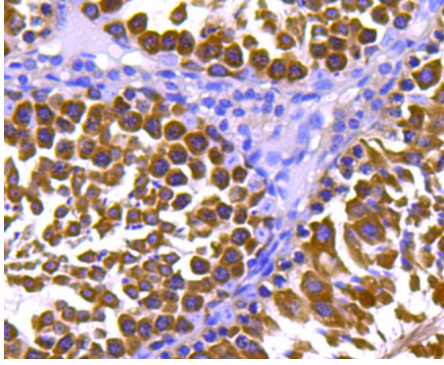


Fig5: Immunohistochemical analysis of paraffin- embedded mouse testis tissue using anti-HSP90 alpha rabbit polyclonal antibody.

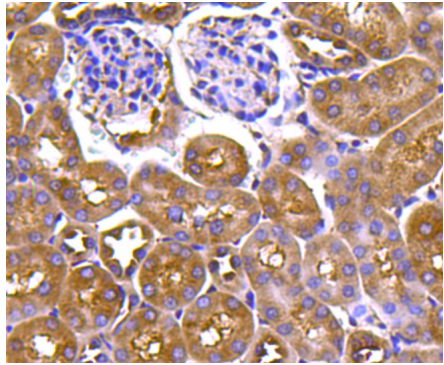


Fig6: Immunohistochemical analysis of paraffin- embedded mouse kidney tissue using anti-HSP90 alpha rabbit polyclonal antibody.

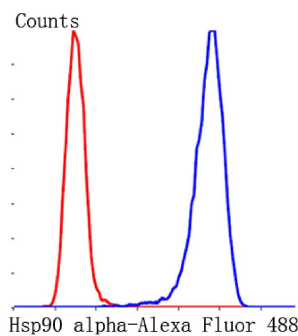


Fig7: Flow cytometric analysis of Hela cells with HSP90 alpha antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Goat anti rabbit IgG (FITC) was used as the secondary antibody.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Zhang Y et al. A systems biology-based investigation into the therapeutic effects of Gansui Banxia Tang on reversing the imbalanced network of hepatocellular carcinoma. *Sci Rep* 4:4154 (2014).
2. Barabutis N et al. LPS induces pp60c-src-mediated tyrosine phosphorylation of Hsp90 in lung vascular endothelial cells and mouse lung. *Am J Physiol Lung Cell Mol Physiol* 304:L883-93 (2013).

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