Human HSP90 alpha antibody

Catalog Number: AHS0704

PRODUCT INFORMATION

Catalog number
AHS0704

Clone No.
4F10

Product type
Monoclonal Antibody

UnitProt No.
P07900

NCBI Accession No.
NP_005339

Alternative Names
Heat shock protein HSP 90-alpha, HSP 86, Renal carcinoma antigen NY-REN-38, HSPC1, HSPCA, Heat shock protein 90-alpha Renal carcinoma antigen NY REN 38, D6S182, FLJ26984, FLJ31884, Heat shock 90kDa protein 1 alpha, heat shock protein 90kDa alpha (cytosolic), class A member 2, HSP84, HSP86, Hsp89, HSP89A, Hsp90, HSP90A, HSP90AA1, HSP90ALPHA, HSP90N, HSPCAL3, HSPCB, HSPN, LAP2, Lipopolysaccharide associated protein2, LPS associated protein 2, NY REN 38 antigen, hsp90, Heat shock protein HSP 90-alpha

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human Hsp90 (1-732aa) purified from E. coli

Isotype
IgG2b kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA, WB, ICC/IF, IHC, FACS

Usage
The antibody has been tested by ELISA, Western blot, ICC, FACS and IHC analysis to assure specificity and

reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

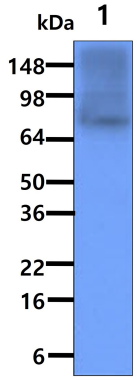
Hsp90 is a human heat shock protein. In response to adverse change in their environment, cell from all organisms increase the expression of a class of proteins referred to as heat shock or stress protein. The Hsp90, a highly conserved stress-induced protein, is abundantly expressed in most tissues under non-stress conditions and is required for eukaryotic cell viability. Hsp90 is primarily a cytoplasmic protein and its function remains unknown. It exists in a dimeric form and has been observed to bind to several other cellular proteins such as retro-virus kinases, steroid receptor, heme-regulated protein kinase, actin and tubulin.

General References

B-T, et al., (1984) Molecular & Cellular Biol 4: 2802-2810.
Pritchard, K. A, et al., (2001) J Biol Chem 276:17621-17624.
Miyamoto, A, et al., (2002) Nature 416:865-869.

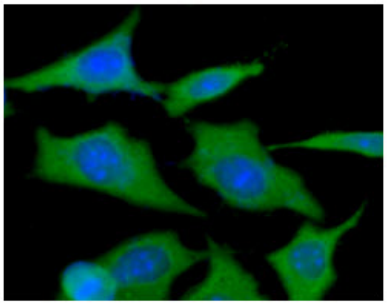
DATA

Western blot analysis (WB)



The cell lysates(20ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human HSP90 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: HeLa cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of HSP90 in HeLa cells. The cell was stained with AHS00704 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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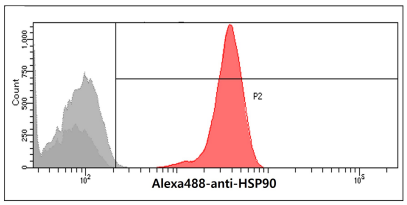
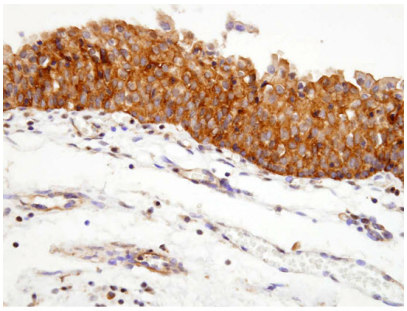
Flow cytometry (FACS)



Flow cytometry analysis of HSP90 in HepG2 cells. The cell was stained with AHS0704 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

Immunohistochemistry (IHC)



Human urothelium

Paraffin embedded sections of human urothelium were incubated with anti-human Hsp90 (1:100) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)