

For Research Use Only

# HSP90 Polyclonal antibody

Catalog Number: 13171-1-AP

Featured Product

268 Publications



## Basic Information

**Catalog Number:**

13171-1-AP

**Size:**

150ul, Concentration: 500 µg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG3826

**GenBank Accession Number:**

BC023006

**GeneID (NCBI):**

3320

**UNIPROT ID:**

P07900

**Full Name:**

heat shock protein 90kDa alpha (cytosolic), class A member 1

**Calculated MW:**

853 aa, 90 kDa

**Observed MW:**

90 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:16000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

FC 1:10-1:100

## Applications

**Tested Applications:**

WB, IP, FC, IHC, ELISA

**Cited Applications:**

WB, IP, IF, RIP, IHC, CoIP, ELISA

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, chicken, carp, rat, sheep, mouse, fish, pig, bovine

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HEK-293 cells, HeLa cells, PC-12 cells, C6 cells, NIH/3T3 cells, mouse kidney tissue, rat kidney tissue

**IP:** K-562 cells, HeLa cells

**IHC:** human liver cancer tissue, mouse testis tissue

**FC:** HeLa cells, A549 cells

## Background Information

HSP90, encoded by HSP90AA1, is a constitutively and ubiquitously expressed molecular chaperone that is crucial for the stability and function of many proteins. HSP90 provides chaperoning activity for client proteins; many of them are members of oncogenic pathways, indicating its implication in tumor malignancy. HSP90 mainly resides in the cytosol, while it can also be released to the extracellular space. Secreted Hsp90 is a C-terminal truncated form. It has been reported that the level of plasma Hsp90 is positively correlated with tumor malignancy in clinical cancer patients, and can be a promising diagnostic marker for tumor malignancy in clinical application.

## Notable Publications

Author	Pubmed ID	Journal	Application
Miao Zhang	36175800	Int J Legal Med	WB
Bing Sun	27684953	PLoS One	WB
Hao Yang	34482643	Proteomics	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

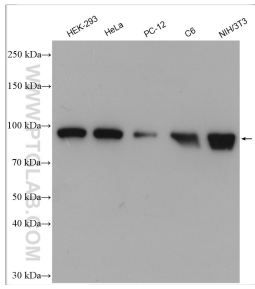
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

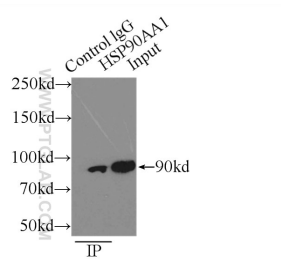
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

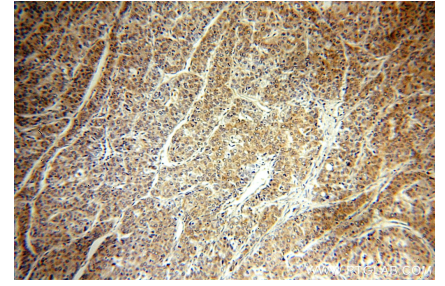
## Selected Validation Data



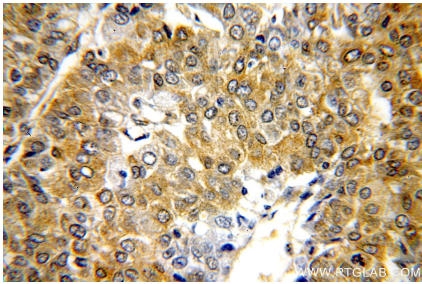
Various lysates were subjected to SDS PAGE followed by western blot with 13171-1-AP (HSP90 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



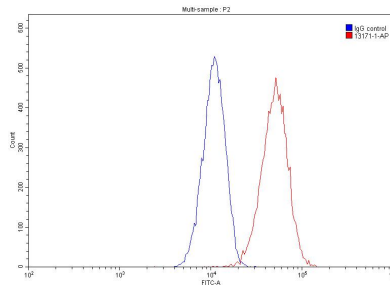
IP result of anti-HSP90 (IP:13171-1-AP, 3ug; Detection:13171-1-AP 1:500) with K-562 cells lysate 2000ug.



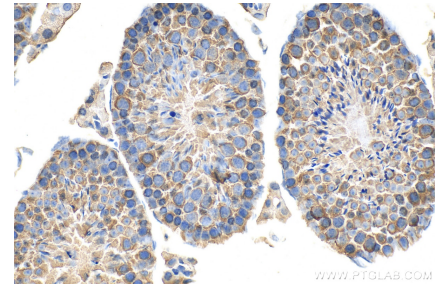
Immunohistochemical analysis of paraffin-embedded human liver cancer using 13171-1-AP (HSP90 antibody) at dilution of 1:50 (under 10x lens).



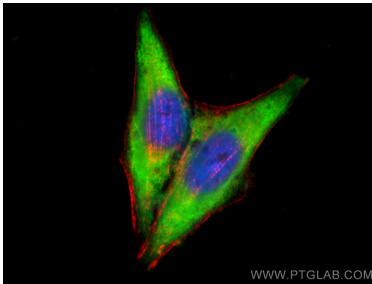
Immunohistochemical analysis of paraffin-embedded human liver cancer using 13171-1-AP (HSP90 antibody) at dilution of 1:50 (under 40x lens).



$1 \times 10^6$  HeLa cells were stained with 0.20ug HSP90 antibody (13171-1-AP, red) and control antibody (blue). Fixed with 90% MeOH.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13171-1-AP (HSP90 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using HSP90 antibody (13171-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).