For Research Use Only

HSP90 Polyclonal antibody

Catalog Number:13171-1-AP Featured Product 391 Publications

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Basic Information

Catalog Number:
13171-1-AP

Concentration:
650 ug/ml

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: 1:1600-1:8000
IF/ICC: 1:200-1:800
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP, RIP, ELISA

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig, rabbit, chicken, bovine, sheep, fish, carp

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 : mouse testis tissue, human colon tissue

IF/ICC : HepG2 cells,

FC (Intra) : HeLa 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. This antibody may cross-react with HSP90AB1 due to the high homology between them.

Notable Publications

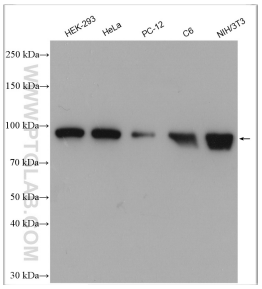
Author	Pubmed ID	Journal	Application
Miao Zhang	36175800	Int J Legal Med	WB
Bing Sun	27684953	PLoS One	WB
Hao Yang	34482643	Proteomics	WB

Storage

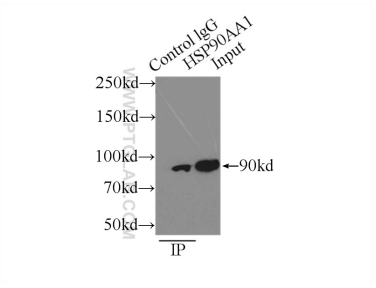
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

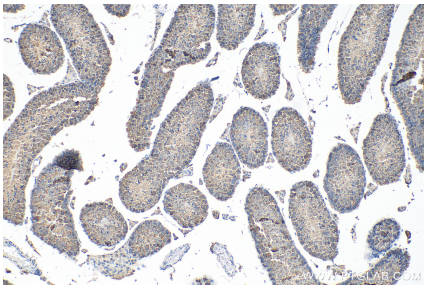
Selected Validation Data



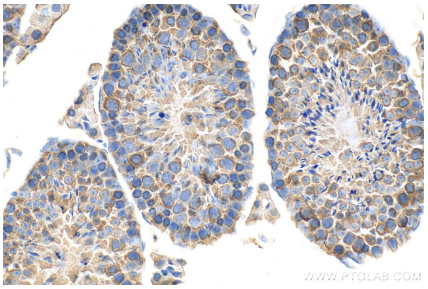
Various lysates were subjected to SDS PAGE followed by western blot with 13171-1-AP (HSP90 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



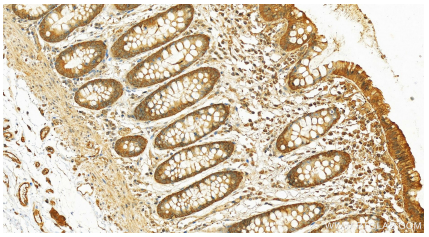
IP result of anti-HSP90 (IP:13171-1-AP, 3ug; Detection:13171-1-AP 1:500) with K-562 cells lysate 2000ug.



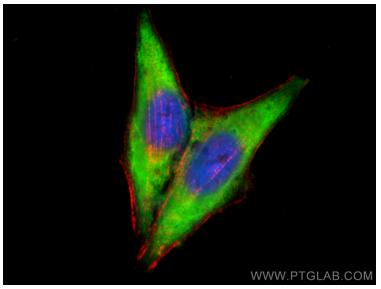
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13171-1-AP (HSP90 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



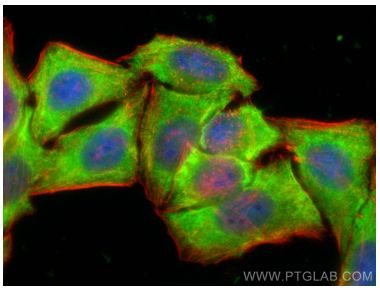
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13171-1-AP (HSP90 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 13171-1-AP (HSP90 antibody) at dilution of 1:1600 (under 20x 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).



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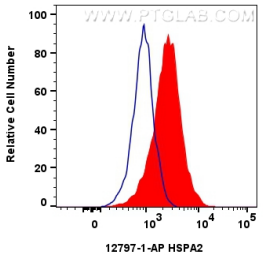

1x10^6 HeLa cells were intracellularly stained with 0.4 ug HSP90 Polyclonal antibody (13171-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).