

HSP90 Monoclonal antibody

Catalog Number: 60318-1-Ig 64 Publications

Basic Information

| | | |
|--|---|---|
| Catalog Number: 60318-1-Ig | GenBank Accession Number: BC023006 | Purification Method: Protein A purification |
| Size: 150ul , Concentration: 1000 µg/ml by Nanodrop; | GeneID (NCBI): 3320 | CloneNo.: 3F11C1 |
| Source: Mouse | Full Name: heat shock protein 90kDa alpha (cytosolic), class A member 1 | Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF 1:50-1:500 |
| Isotype: IgG2a | Calculated MW: 853 aa, 90 kDa | |
| Immunogen Catalog Number: AG3826 | Observed MW: 85-90 kDa | |

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

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

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, chicken, rat, mouse, monkey, pig

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 : LNCaP cells, HeLa cells, HEK-293 cells, MCF-7 cells, Jurkat cells, HSC-T6 cells, ROS1728 cells, NIH/3T3 cells, 4T1 cells

IP : HepG2 cells,

IHC : human ovary tumor tissue,

IF : HepG2 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 |
|--------------|-----------|-------------------|-------------|
| Yunfei Chen | 32966240 | Aging (Albany NY) | WB |
| Xingfeng Liu | 36131205 | Nat Metab | WB |
| Rui Lin | 36082450 | Prostate | 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.

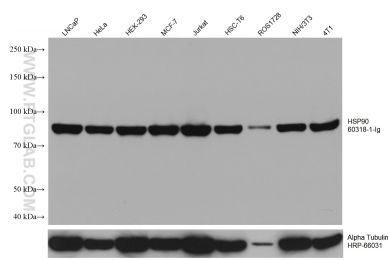
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

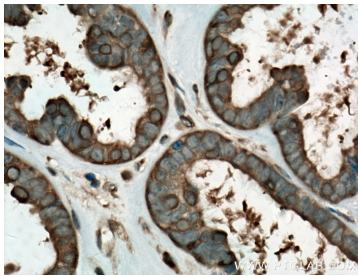
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
 W: ptglab.com

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

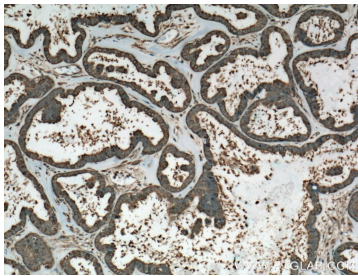
Selected Validation Data



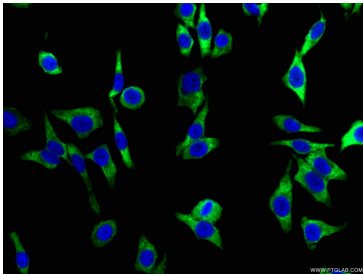
Various lysates were subjected to SDS PAGE followed by western blot with 60318-1-Ig (HSP90 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



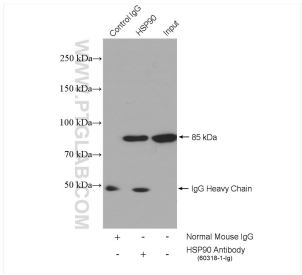
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 60318-1-Ig (HSP90 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



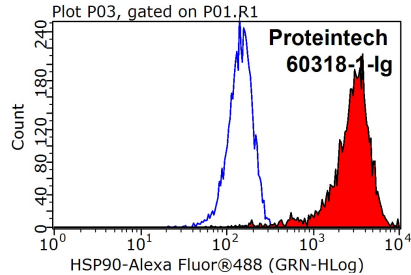
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 60318-1-Ig (HSP90 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 60318-1-Ig (HSP90 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



IP result of anti-HSP90 (IP:60318-1-Ig, 5ug; Detection:60318-1-Ig 1:5000) with HepG2 cells lysate 1200 ug.



1X10⁶ K-562 cells were stained with 0.2ug HSP90 antibody (60318-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000.