

GRP94 Polyclonal ANTIBODY

Catalog Number: 14700-1-AP

12 Publications

Basic Information

Catalog Number:
14700-1-AP

Size:
36 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification
Immunogen Catalog Number:
AG6344

GenBank Accession Number:
BC066656

GeneID (NCBI):
7184

Full Name:
heat shock protein 90kDa beta (Grp94),
member 1

Calculated MW:
92 kDa

Observed MW:
100 kDa

Recommended Dilutions:

WB 1:1000-1:4000
IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB
IHC 1:20-1:200
IF 1:20-1:200

Applications

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

Cited Applications:
IF, IHC, WB

Species Specificity:
human,mouse,rat

Cited Species:
human, mouse, rat

**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 : HeLa cells; A549 cells, HEK-293 cells, HT-1080 cells, K-562 cells, MCF-7 cells, mouse heart tissue, mouse liver tissue, NIH/3T3 cells, rat liver tissue

IP : mouse liver tissue;

IHC : human breast cancer tissue; human cervical cancer tissue

IF : A431 cells; HepG2 cells

Background Information

HSP90 proteins are highly conserved molecular chaperones, which normally associate with other cochaperones and play important roles in folding newly synthesized proteins or stabilizing and refolding denatured proteins after stress. HSP90B1 (GP96 or GRP94) is an endoplasmic reticulum paralogue of the cytosolic HSP90. As a major ER chaperone to mediate the UPR and a master chaperone for Toll-like receptors (TLRs), HSP90b1 chaperones peptides to MHC class I molecules of dendritic cells and other antigen-presenting cells, as well as facilitating the assembly of immunoglobulin. The protein is also involved in many other bio-processes. This antibody was generated against the C-terminal region of full-length HSP90b1.

Notable Publications

Author	Pubmed ID	Journal	Application
Chang Feng	30445054	Toxicology	
Zhiyong Yao	26604689	Drug Des Devel Ther	WB
Zhiwei Liao	31281533	Theranostics	WB,IF

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

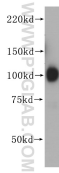
For technical support and original validation data for this product please contact:

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

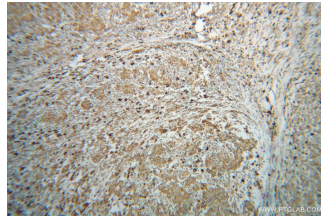
E: proteintech@ptglab.com
W: ptglab.com

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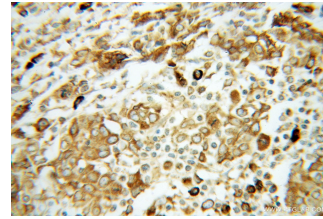
Selected Validation Data



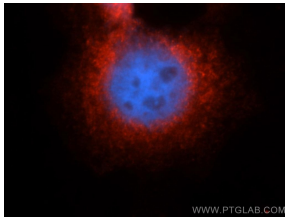
HeLa cells were subjected to SDS PAGE followed by western blot with 14700-1-AP(HSP90B1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours



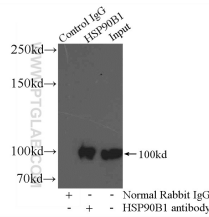
Immunohistochemical analysis of paraffin-embedded human breast cancer using 14700-1-AP(HSP90B1 antibody) at dilution of 1:100 (under 10x lens)



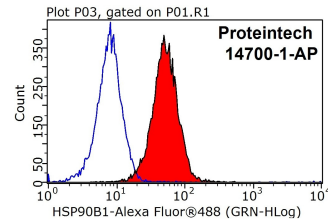
Immunohistochemical analysis of paraffin-embedded human breast cancer using 14700-1-AP(HSP90B1 antibody) at dilution of 1:100 (under 40x lens)



Immunofluorescent analysis of A431 cells, using HSP90B1 antibody 14700-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP Result of anti-GRP94 (IP: 14700-1-AP, 3ug; Detection: 14700-1-AP 1:1000) with mouse liver tissue lysate 4000ug.



1X10⁶ HEK-293T cells were stained with .2ug GRP94 antibody (14700-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.