

# GRP94

## Polyclonal ANTIBODY

Catalog Number: 10979-1-AP

Featured Product

1 Publications

### Basic Information

Catalog Number:  
10979-1-AP

Size:  
34 µg/150 µl

Source:  
Rabbit  
Isotype:  
IgG

Purification Method:  
Antigen affinity purification  
Immunogen Catalog Number:  
AG1439

GenBank Accession Number:  
BC009195

GeneID (NCBI):  
7184

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

Calculated MW:  
96 kDa

Observed MW:  
94 kDa

Recommended Dilutions:

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

### Applications

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

Cited Applications:  
WB

Species Specificity:  
human,mouse,rat

Cited Species:  
rat

**Note: 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; A549 cells, MCF-7 cells, K-562  
cells, NIH/3T3 cells

IP : MCF-7 cells;

IHC : human breast cancer tissue; human lung  
cancer tissue

IF : MCF-7 cells; HEK-293 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 N-terminal region of full-length HSP90b1.

### Notable Publications

Author	Pubmed ID	Journal	Application
Maojun Liu	28990064	Mol Med Rep	WB

### Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

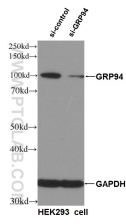
For technical support and original validation data for this  
product please contact:

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

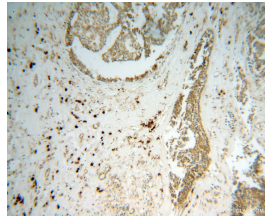
E: proteintech@ptglab.com  
W: ptglab.com

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

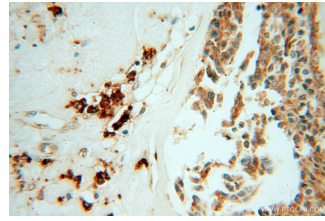
## Selected Validation Data



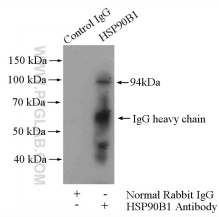
WB result of GPR94 antibody (10979-1-AP, 1:1000) with si-control and si-GPR94 transfected HEK293 cells.



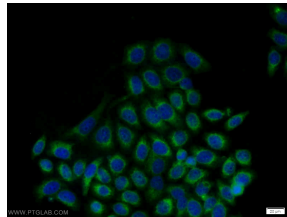
Immunohistochemical of paraffin-embedded human breast cancer using 10979-1-AP(HSP90B1 antibody) at dilution of 1:50 (under 10x lens)



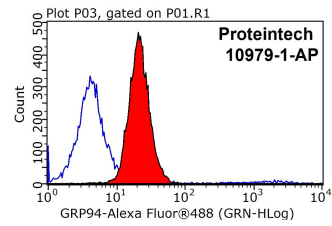
Immunohistochemical of paraffin-embedded human breast cancer using 10979-1-AP(HSP90B1 antibody) at dilution of 1:50 (under 40x lens)



IP Result of anti-GRP94 (IP: 10979-1-AP, 4ug; Detection: 10979-1-AP 1:500) with MCF-7 cells lysate 4000ug.



Immunofluorescent analysis of MCF-7 cells using 10979-1-AP (GRP94 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



1X10<sup>6</sup> MCF-7 cells were stained with 0.2ug GRP94 antibody (10979-1-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.