

For Research Use Only

# GRP94 Monoclonal antibody

Catalog Number: 60012-1-Ig **6 Publications**



## Basic Information

<b>Catalog Number:</b> 60012-1-Ig	<b>GenBank Accession Number:</b> BC009195	<b>Purification Method:</b> Caprylic acid/ammonium sulfate precipitation
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 7184	<b>CloneNo.:</b> 1H10B7
<b>Source:</b> Mouse	<b>Full Name:</b> heat shock protein 90kDa beta (Grp94), member 1	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF 1:50-1:500
<b>Isotype:</b> IgM	<b>Calculated MW:</b> 96 kDa	
<b>Immunogen Catalog Number:</b> AG1439	<b>Observed MW:</b> 95 kDa	

## Applications

### Tested Applications:

FC, IF, IHC, WB, ELISA

### Cited Applications:

CoIP, 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:** Human heart, human heart tissue, human liver tissue, human lung tissue, NIH/3T3 cells, RAW 264.7 cells, ROS1728 cells

**IHC:** human lung cancer tissue, human breast cancer tissue

**IF:** HepG2 cells, Hela cells, MCF-7 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
Raul Chavez-Valdez	30971945	Front Physiol	
Wenfei Xia	34249903	Front Cell Dev Biol	WB
Xin-Yang Li	33133686	J Adv Res	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

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

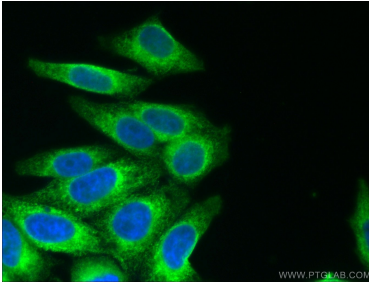
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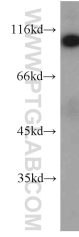
E: proteintech@ptglab.com  
W: ptglab.com

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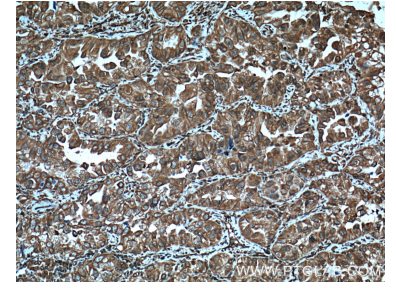
## Selected Validation Data



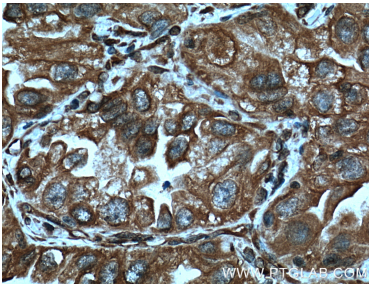
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 60012-1-Ig (GRP94 antibody) at dilution of 1:200 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



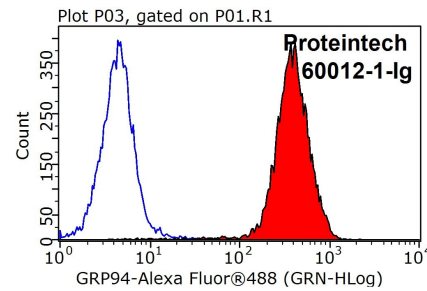
human heart tissue were subjected to SDS PAGE followed by western blot with 60012-1-Ig (HSP90B1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60012-1-Ig (GRP94 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60012-1-Ig (GRP94 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> HeLa cells were stained with 0.2ug GRP94 antibody (60012-1-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.