

# Human GRP94/HSP90B1 antibody

Catalog Number: ATGA0348

## PRODUCT INFORMATION

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**Catalog number**

ATGA0348

**Clone No.**

AT94B9

**Product type**

Monoclonal Antibody

**UnitProt No.**

P14625

**NCBI Accession No.**

NP\_003290

**Alternative Names**

Tumor rejection antigen GP96, Tumor rejection antigen 1, TRA1, Stress inducible tumor rejection antigen GP96, HSP90B1, Heat shock protein 90 kDa beta member 1, GRP94, GRP 9, GP96 homolog, GP96, Glucose regulated protein 94kDa, Endothelial cell (HBMEC) glycoprotein, Endoplasmin, ECGP, 94 kDa glucose-regulated protein

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human GRP94 (22-803aa) purified from E.coli

**Isotype**

IgG2b kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF, FACS

**Usage**

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

GRP94, also known as Heat shock protein 90kDa beta, member 1 (HSP90B1), is an abundant resident endoplasmic reticulum (ER) luminal stress protein which together with cytosolic Hsp90 belongs to the Hsp90 family of molecular chaperones. It plays an important role in maintaining protein homeostasis in the secretory pathway. Also, GRP94 can function in the intracellular trafficking of peptides from the extracellular space to the MHC class I antigen processing pathway of antigen presentation cells.

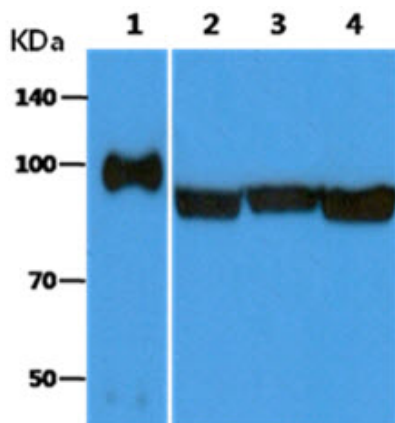
### General References

Randow F., et al. (2001) Nat Cell Biol. 3(10): 231.

Li Z., et al. (2002) Front Biosci. 7: 731-751.

## DATA

### Western blot analysis (WB)



The Recombinant protein (25ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GRP94 antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

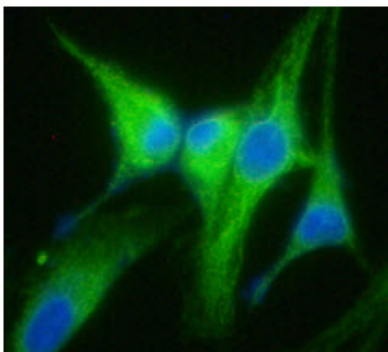
Lane 1.: Recombinant Human GRP94

Lane 2.: HeLa cell lysate

Lane 3.: Jurkat cell lysate

Lane 4.: HepG2 cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

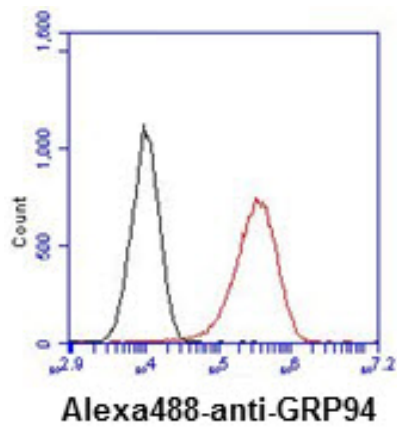


ICC/IF analysis of GRP94 in U87MG cells. The cell was stained with ATGA0348 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

### Flow cytometry (FACS)

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Flow cytometry analysis of GRP94 in U87MG cell line, staining at 2-5ug for  $1 \times 10^6$  cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).