

**Anti-GRP94 Antibody**  
Catalog # ABO10665**Specification**

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**Anti-GRP94 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P14625</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Endoplasmic(HSP90B1) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-GRP94 Antibody - Additional Information**

**Gene ID** 7184

**Other Names**

Endoplasmic, 94 kDa glucose-regulated protein, GRP-94, Heat shock protein 90 kDa beta member 1, Tumor rejection antigen 1, gp96 homolog, HSP90B1, GRP94, TRA1

**Calculated MW**

92469 MW KDa

**Application Details**

Immunocytochemistry , 0.5-1 µg/ml, Human, Mouse, Rat<br>Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Rat, Human, Mouse<br>Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Endoplasmic reticulum lumen. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

**Protein Name**

Endoplasmic

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence in the middle region of human GRP94(687-700aa INPRHPLIRDMLRR), identical to the related mouse and rat sequences.

**Purification**

Immunogen affinity purified.

#### Cross Reactivity

No cross reactivity with other proteins

Storage

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

### Anti-GRP94 Antibody - Protein Information

**Name** HSP90B1 ([HGNC:12028](#))

#### Function

Molecular chaperone that functions in the processing and transport of secreted proteins (By similarity). When associated with CNPY3, required for proper folding of Toll-like receptors (By similarity). Functions in endoplasmic reticulum associated degradation (ERAD) (PubMed: [18264092](http://www.uniprot.org/citations/18264092)). Has ATPase activity (By similarity). May participate in the unfolding of cytosolic leaderless cargos (lacking the secretion signal sequence) such as the interleukin 1/IL-1 to facilitate their translocation into the ERGIC (endoplasmic reticulum- Golgi intermediate compartment) and secretion; the translocation process is mediated by the cargo receptor TMED10 (PubMed: [32272059](http://www.uniprot.org/citations/32272059)).

#### Cellular Location

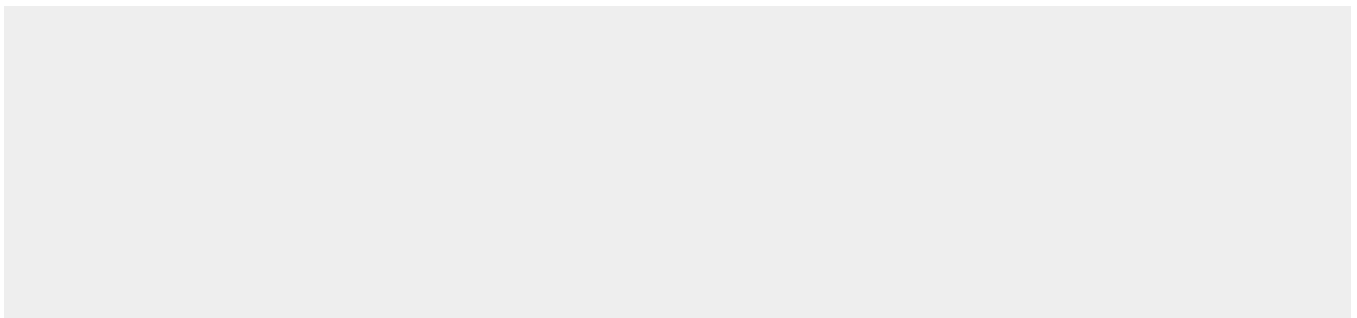
Endoplasmic reticulum lumen. Sarcoplasmic reticulum lumen {ECO:0000250|UniProtKB:P41148}. Melanosome Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

### Anti-GRP94 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

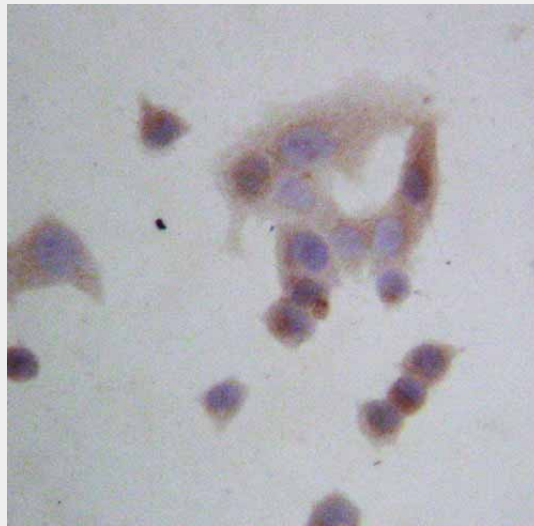
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-GRP94 Antibody - Images

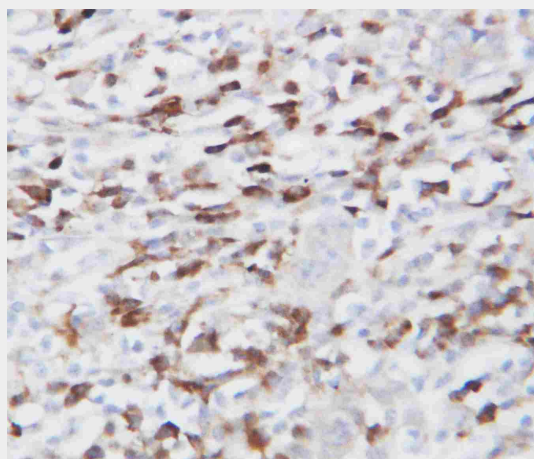




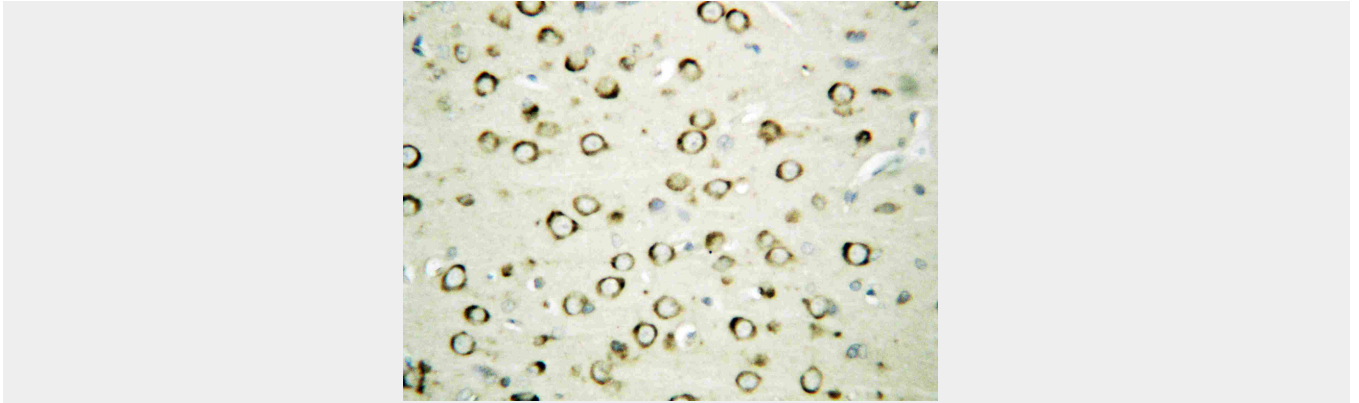
Anti-GRP94 antibody, ABO10665, Western blotting Lane 1: RAJI Cell Lysate Lane 2: MCF-7 Cell Lysate



Anti-GRP94 antibody, ABO10665, IHC(P) IHC(P): HELA Cell



Anti-GRP94 antibody, ABO10665, IHC(P) IHC(P): Human Lung Cancer Tissue



Anti-GRP94 antibody, ABO10665, IHC(P)IHC(P): Rat Brain Tissue

#### **Anti-GRP94 Antibody - Background**

Heat shock protein 90kDa beta member 1 $\alpha$  (HSP90B1), known also as $\alpha$  endoplasmin, GRP94, is a chaperone protein $\alpha$  that in humans is encoded by the $\alpha$  HSP90B1 $\alpha$  gene. It is mapped to chromosome 12q23.3. This gene encodes a member of a family of adenosine triphosphate (ATP)-metabolizing molecular chaperones with roles in stabilizing and folding other proteins. The encoded protein is localized to melanosomes and the endoplasmic reticulum. Expression of this protein is associated with a variety of pathogenic states, including tumor formation.