

**GRP94 / HSP90B1 (Endoplasmic Reticulum Marker) Antibody - With BSA and Azide**  
**Rat Monoclonal Antibody [Clone SPM249 ]**  
**Catalog # AH12456****Specification****GRP94 / HSP90B1 (Endoplasmic Reticulum Marker) Antibody - With BSA and Azide - Product Information**

Application	WB, IHC-P, IF, FC
Primary Accession	<a href="#">P14625</a>
Other Accession	<a href="#">7184</a> , <a href="#">192374</a>
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Pig, Chicken, Bovine, Sheep, Xenopus, Horse, Guinea Pig, Dog
Host	Rat
Clonality	Monoclonal
Isotype	Rat / IgG2a, kappa
Calculated MW	94kDa KDa

**GRP94 / HSP90B1 (Endoplasmic Reticulum Marker) Antibody - With BSA and Azide - 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

**Application Note**

<span class="dilution\_WB">WB~~1:1000</span><br \><span class="dilution\_IHC-P">IHC-P~~N/A</span><br \><span class="dilution\_IF">IF~~1:50~200</span><br \><span class="dilution\_FC">FC~~1:10~50</span>

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

GRP94 / HSP90B1 (Endoplasmic Reticulum Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

**GRP94 / HSP90B1 (Endoplasmic Reticulum Marker) Antibody - With BSA and Azide - Protein Information****Name** HSP90B1 {ECO:0000303|PubMed:39509507, ECO:0000312|HGNC:HGNC:12028}**Function**

ATP-dependent chaperone involved in the processing of proteins in the endoplasmic reticulum, regulating their transport (PubMed:&lt;a href="http://www.uniprot.org/citations/23572575" target="\_blank"&gt;23572575&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/39509507"

target="\_blank">39509507</a>). Together with MESD, acts as a modulator of the Wnt pathway by promoting the folding of LRP6, a coreceptor of the canonical Wnt pathway (PubMed:<a href="http://www.uniprot.org/citations/23572575" target="\_blank">23572575</a>, PubMed:<a href="http://www.uniprot.org/citations/39509507" target="\_blank">39509507</a>). When associated with CNPY3, required for proper folding of Toll-like receptors (PubMed:<a href="http://www.uniprot.org/citations/11584270" target="\_blank">11584270</a>). Promotes folding and trafficking of TLR4 to the cell surface (PubMed:<a href="http://www.uniprot.org/citations/11584270" target="\_blank">11584270</a>). 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:<a href="http://www.uniprot.org/citations/32272059" target="\_blank">32272059</a>).

#### Cellular Location

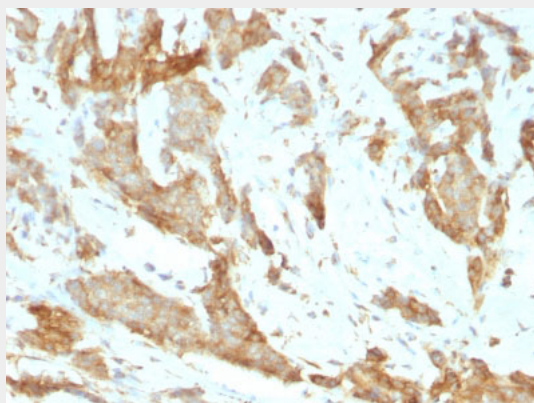
Endoplasmic reticulum lumen. Sarcoplasmic reticulum lumen {ECO:0000250|UniProtKB:P41148}. Melanosome Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

#### GRP94 / HSP90B1 (Endoplasmic Reticulum Marker) Antibody - With BSA and Azide - 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](#)

#### GRP94 / HSP90B1 (Endoplasmic Reticulum Marker) Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with GRP94 Monoclonal Antibody (SPM249).

#### GRP94 / HSP90B1 (Endoplasmic Reticulum Marker) Antibody - With BSA and Azide - Background

Recognizes a protein of 94kDa, which is identified as the glucose-regulated protein 94 (grp94) and also tumor rejection antigen (gp96). Grp94 shows a high degree of sequence homology with the heat shock protein 90 (hsp90). This MAb is highly specific to grp94 and shows minimal cross-reaction with other members of the HSP90 family. Grp s are a class of proteins unresponsive to heat shock and are induced by glucose deprivation. Grp94 has been briefly studied as a prognostic factor in breast cancer.

**GRP94 / HSP90B1 (Endoplasmic Reticulum Marker) Antibody - With BSA and Azide -  
References**

Sorger, P.K. et al. J. Mol. Biol. 194: 341-344 (1987). | Tandon, A.K. et.al. Breast Cancer Res. and Treat. 16: 146 (1990). |