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

Rat Monoclonal Antibody [Clone HSP90B1/1192]
Catalog # AH12459

Specification

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

Application	**WB, IHC-P, IF, FC**
Primary Accession	P14625
Other Accession	7184, 192374
Reactivity	**Human**
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
Endoplasmin, 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
WB~~1:1000<br \>IHC-P~~N/A<br \>IF~~1:50~200<br \>FC~~1:10~50

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:23572575, PubMed:39509507). 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, PubMed:39509507). When associated with CNPY3, required for proper folding of Toll-like receptors (PubMed:11584270). Promotes folding and trafficking of TLR4 to the cell surface (PubMed:11584270). 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).

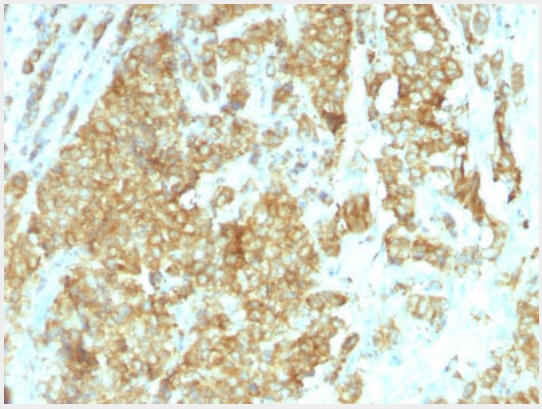
Cellular Location
Endoplasmic reticulum lumen. Sarcoplasmic reticulum lumen {ECO:0000250|UniProtKB:P41148}. Melanosome Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

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 Cytomety
- 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 (HSP90B1/1192).

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). |