

## Polyclonal Antibody to Endoplasmin / HSP90B1 / TRA1 - Purified

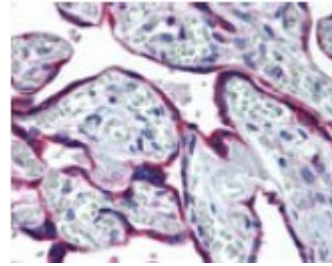
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| <b>Alternate names:</b> | 94 kDa glucose-regulated protein, GRP94, Heat shock protein 90 kDa beta member 1, Tumor rejection antigen 1  |
| <b>Catalog No.:</b>     | AP21856PU-N  |
| <b>Quantity:</b>        | 0.1 mg   |
| <b>Concentration:</b>   | 0,5 mg/ml  |
| <b>Background:</b>      | GRP94 is a 803 amino acid protein belonging to the heat shock protein 90 family. It acts as a molecular chaperone that functions in the processing and transport of secreted proteins. GRP94 and its N-terminal fragment stimulates CTL expansion and maturation of human monocyte-derived dendritic cells (MDDC). It plays a central role in innate as well as acquired immunity, maturation and chemotaxis of dendritic cells, Ab production, cross-priming, as a potential marker in breast cancer and is a peptide acceptor in endoplasmic reticulum and an accessory to peptide loading of MHC class I molecules. Expression of GRP94 suppressed A23187-induced apoptosis and stabilized calcium homeostasis. GRP94 is expressed in melanoma or liver metastases of colon carcinoma cells, human gastric carcinoma BGC-823 cells. |
| <b>Uniprot ID:</b>      | <a href="#">P14625</a>   |
| <b>NCBI:</b>            | <a href="#">NP_003290.1</a>  |
| <b>GeneID:</b>          | <a href="#">7184</a>   |
| <b>Host:</b>            | Rabbit   |
| <b>Immunogen:</b>       | A portion of amino acids 590-640 of human GRP94<br><b>Remarks:</b> 100% homologous in human, chimpanzee, monkey and mouse<br>94% homologous in rat and cow<br>89% homologous in chicken<br>84% homologous in zebrafish<br>81% homologous in xenopus  |
| <b>Format:</b>          | <b>State:</b> Liquid purified Ig fraction<br><b>Purification:</b> Protein G chromatography<br><b>Buffer System:</b> PBS containing 0.2% gelatin and 0.05% sodium azide   |
| <b>Applications:</b>    | Immunohistochemistry on paraffin sections: 10 µg/ml.<br>Western blot: 0.5 - 2 µg/ml.<br><i>Recommended Positive Control:</i> 3T3 and RAW cell lysate<br>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.   |
| <b>Specificity:</b>     | This antibody reacts to GRP94.   |

**Species Reactivity:** **Tested:** Chimpanzee, Horse, Human, New World monkey, Mouse.  
**Expected from sequence similarity:** Rat, Cow, Zebrafish, Xenopus, Chicken.

**Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

**General Readings:** 1. Zhang, Y. et al. Biochem. Biophys. Res. Commun. 344:581-587 (2006).  
2. Essegir, S. et al. Clin. Cancer. Res. 13:3164-3173 (2007).  
3. Cho, NH. et al. Microbio. Immunol. 48:297-305 (2004).

**Pictures:** IHC analysis of Human Placenta using AP21856PU-N at 10 µg/ml.



Western blot analysis of human GRP94 in 3T3 cell lysate in the 1) absence, 2) presence of immunizing peptide and 3) RAW cell lysate using AP21856PU-N at 1 µg/ml.

