



# Endoplasmin Monoclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-mAb-16289                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>                   | HSP90B1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human GRP94. AA range:754-803                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Specificity</b>                 | Endoplasmin Monoclonal Antibody detects endogenous levels of Endoplasmin protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>                      | Monoclonal, mouse,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purification</b>                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Dilution</b>                    | Western Blot: 1/500 - 1/2000.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>                    | 94 kDa glucose regulated protein;94 kDa glucose-regulated protein;ECGP; Endoplasmin;Endothelial cell (HBMEC) glycoprotein;ENPL_HUMAN;Glucose regulated protein 94kDa;gp96;gp96 homolog;GRP 94;GRP-94;Heat shock protein 9 kDa beta member 1;heat shock protein 9kDa beta (Grp94);member 1; Heat shock protein;9 kDa;beta;1;HSP9B1;Stress inducible tumor rejection antigen GP96;TRA1;tumor rejection antigen (gp96) 1;Tumor rejection antigen 1; Tumor rejection antigen gp96;Tumor rejection antigen-1 (gp96);HSP90B1; GRP94;Heat shock protein 90 kDa beta member 1 |
| <b>Observed Band</b>               | 92kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Calculated Molecular Weight</b> | 92kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cell Pathway</b>                | Endoplasmic reticulum lumen . Sarcoplasmic reticulum lumen . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV. .                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Tissue Specificity</b>          | Blood,Brain,Liver,Lung,Platelet,Skin,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Function</b>                    | function:Molecular chaperone that functions in the processing and transport of secreted proteins. Has ATPase activity.,PTM:Phosphorylated.,similarity:Belongs to the heat shock protein 90 family.,subcellular location:Identified by mass                                                                                                                                                                                                                                                                                                                            |



spectrometry in melanosome fractions from stage I to stage IV., subunit:Homodimer; disulfide-linked. Component of an EIF2 complex at least composed of CUGBP1, CALR, CALR3, EIF2S1, EIF2S2, HSP90B1 and HSPA5 (By similarity). Part a large chaperone multiprotein complex comprising CABP1, DNAJB11, HSP90B1, HSPA5, HYOU, PDIA2, PDIA4, PPIB, SDF2L1, UGT1A1 and very small amounts of ERP29, but not, or at very low levels, CALR nor CANX.,

#### Background

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. There is a microRNA gene located within the 5' exon of this gene. There are pseudogenes for this gene on chromosomes 1 and 15. [provided by RefSeq, Aug 2012],

#### matters needing attention

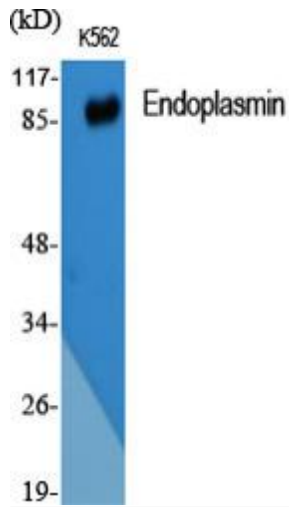
Avoid repeated freezing and thawing!

#### Usage suggestions

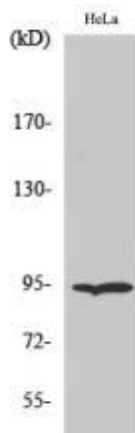
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



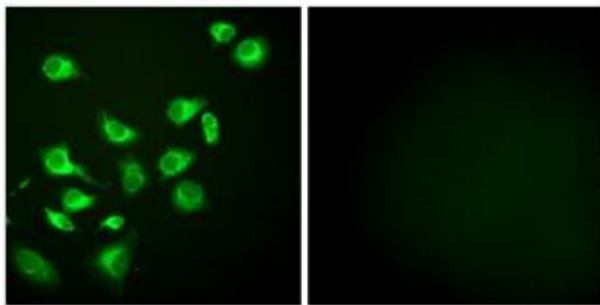
## Products Images



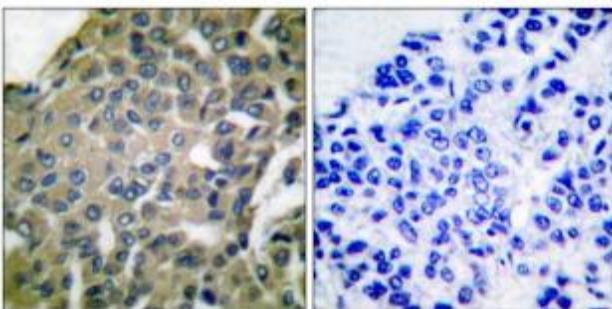
Western Blot analysis of various cells using Endoplasmin Monoclonal Antibody diluted at 1:1000



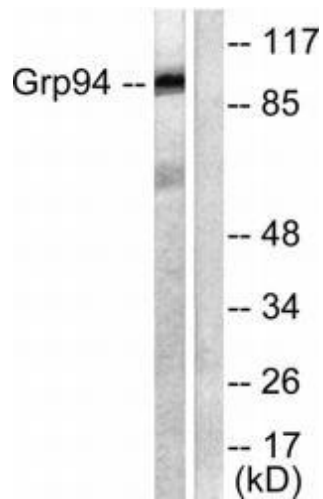
Western Blot analysis of HeLa cells using Endoplasmin Monoclonal Antibody diluted at 1:1000



Immunofluorescence analysis of HepG2 cells, using GRP94 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using GRP94 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from SKOV3 cells, using GRP94 Antibody. The lane on the right is blocked with the synthesized peptide.