

Anti-GRP94 Antibody [F1-D10-G3]

M1701-12



Product Type:	Mouse monoclonal IgM, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 94 kDa
Clone number:	F1-D10-G3

Description: The human HSP 90 family includes 17 genes that fall into four classes: HSP90AA, HSP90AB, HSP90B and TRAP. HSP 90 family members guide the normal folding, intracellular disposition and Proteolytic turnover of many key regulators of cell growth, differentiation and survival. HSP 90 α , also designated HSP90A, HSP 86 and LPS-associated protein 2 (LAP2), is a cytosolic enhancer of inducible nitric-oxide synthase (iNOS), with chaperone activity that is important for the transcriptional activity of p53. HSP 90 β , also designated HSP90B, HSP 84 and HSPC2, is a cytosolic protein that participates in signaling pathways with PKC ϵ to protect cells from external damage, particularly in heat shock-mediated events. GRP 94, also known as tumor rejection antigen 1 (TRA1), ECGP and GP96, localizes to the ER, is highly expressed in BGC-823 human gastric carcinoma cells and is upregulated in human endothelial cells in response to hypoxia by HIF-1.

Immunogen: Recombinant protein within Human GRP94 aa 201-400 / 803.

Positive control: HepG2 cell lysate, HeLa cell lysate, human brain tissue lysate, NIH/3T3 cell lysate, mouse placenta tissue lysate, mouse brain tissue lysate, PC-12 cell lysate, rat placenta tissue lysate, rat brain tissue lysate, human liver cancer tissue, human kidney tissue.

Subcellular location: Endoplasmic reticulum lumen, melanosome.

Database links: SwissProt: P14625 Human | P08113 Mouse | Q66HD0 Rat

Recommended Dilutions:

WB	1:1,000-1:10,000
IHC-P	1:50-1:200

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

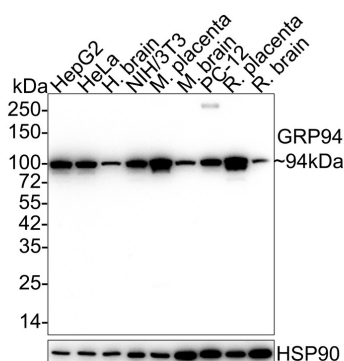
Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn

Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of GRP94 on different lysates with Mouse anti-GRP94 antibody (M1701-12) at 1/1,000 dilution.



Lane 1: HepG2 cell lysate (10 µg/Lane)
 Lane 2: HeLa cell lysate (10 µg/Lane)
 Lane 3: Human brain tissue lysate (20 µg/Lane)
 Lane 4: NIH/3T3 cell lysate (10 µg/Lane)
 Lane 5: Mouse placenta tissue lysate (20 µg/Lane)
 Lane 6: Mouse brain tissue lysate (20 µg/Lane)
 Lane 7: PC-12 cell lysate (10 µg/Lane)
 Lane 8: Rat placenta tissue lysate (20 µg/Lane)
 Lane 9: Rat brain tissue lysate (20 µg/Lane)

Predicted band size: 92 kDa

Observed band size: 94 kDa

Exposure time: 25 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (M1701-12) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

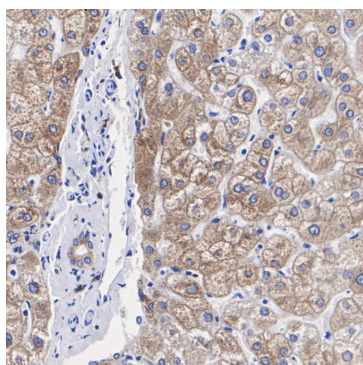


Fig2: Immunohistochemical analysis of paraffin-embedded human liver tissue with Mouse anti-GRP94 antibody (M1701-12) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (M1701-12) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail: support@huabio.cn

华安生物
HUABIO
www.huabio.cn

Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

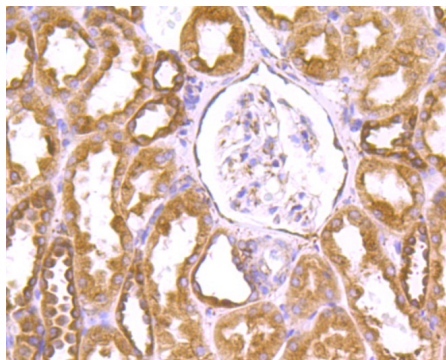


Fig3: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-GRP94 antibody. Counter stained with hematoxylin.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Gallagher CM et al. Ceapins are a new class of unfolded protein response inhibitors, selectively targeting the ATF6a branch. *Elife* 5.pii: e11878 (2016).
2. Plate L et al. Small molecule proteostasis regulators that reprogram the ER to reduce extracellular protein aggregation. *Elife* 5.pii: e15550 (2016).

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn

Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation