For Research Use Only

GRP94 Polyclonal antibody

Catalog Number: 14700-1-AP

Featured Product

50 Publications



Basic Information

 Catalog Number:
 GenBank Accession Number:

 14700-1-AP
 BC066656

 Concentration:
 GeneID (NCBI):

 500 ug/ml
 7184

 Source:
 UNIPROT ID:

 Rabbit
 P14625

Isotype: Full Name:
IgG heat shock protein 90kDa beta

Immunogen Catalog Number: (Grp94), member 1
AG6344 Calculated MW:
92 kDa

Observed MW: 100 kDa Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:2000-1:16000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications: WB, IHC, IF, CoIP Species Specificity: human, mouse, rat Cited Species: human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Positive Controls:

WB: A431 cells, HEK-293 cells, A549 cells, HeLa cells, HepG2 cells, MCF-7 cells, U2OS cells

IP: mouse liver tissue.

IHC: human breast cancer tissue, human cervical

cancer tissue

IF/ICC: HeLa cells, HepG2 cells

Background Information

Glucose-regulated protein 94 (GRP94), also called HSP90B1 and GP96, is an endoplasmic reticulum (ER)-resident member of the heat shock protein 90 (HSP90) family (PMID: 33802964; 24658275). Under ER stress conditions, GRP94 accelerates its function as a molecular chaperone. Client proteins of GRP94 include toll-like receptors (TLRs), glycoprotein (GP) IX subunit, insulin-like growth factors (IGFs), proinsulin, and integrins (PMID: 7913987; 32781621; 22079671). As well as being an ER chaperone, GRP94 can also participate in Calcium regulation and is also a regulator of innate and adaptive immunity (PMID: 33802964; 11584270).

Notable Publications

Author	Pubmed ID	Journal	Application
Na Liu	32961227	Life Sci	WB
Piaopiao Wen	36139350	Cells	WB
Chang Feng	30445054	Toxicology	

Storage

Storage:

Storage Ruffer:

Storage Buffer

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

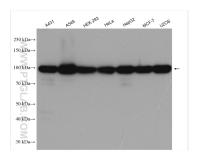
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

W: ptgcn.cor

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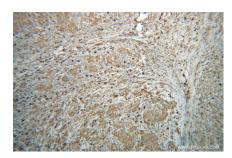
Selected Validation Data



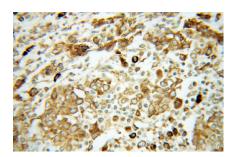
Various lysates were subjected to SDS PAGE followed by western blot with 14700-1-AP (GRP94 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



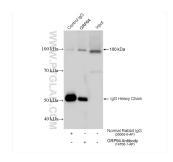
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using GRP94 antibody (14700-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



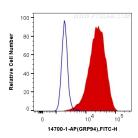
Immunohistochemical analysis of paraffinembedded human breast cancer using 14700-1-AP (HSP90B1 antibody) at dilution of 1:100 (under 10x lens).



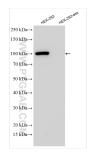
Immunohistochemical analysis of paraffinembedded human breast cancer using 14700-1-AP (HSP90B1 antibody) at dilution of 1:100 (under 40x lens).



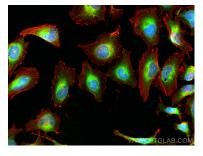
IP result of anti-GRP94 (IP:14700-1-AP, 4ug; Detection:14700-1-AP 1:2000) with mouse liver tissue lysate 1560 ug.



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human GRP94 (14700-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit 1gG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



HEK-293 cells and HEK-293-derived exosomes (HEK-293-exo) were subjected to SDS PAGE followed by western blot with 14700-1-AP (GRP94 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using GRP94 antibody (14700-1-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using GRP94 antibody (14700-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).