For Research Use Only

CoraLite®594-conjugated GRP94 Monoclonal antibody

Catalog Number:CL594-60012

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL594-60012

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG1439

GenBank Accession Number:
BC009195

GeneID (NCBI):
7184

UNIPROT ID:
P14625

Full Name:
heat shock protein 90kDa beta (Grp94), member 1

Calculated MW:
96 kDa

Observed MW:
95 kDa

Purification Method:
Protein G purification

CloneNo.:
4G7C7

Recommended Dilutions:
WB: 1:500-1:1000
IF/ICC: 1:50-1:500
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
588 nm / 604 nm

Applications

Tested Applications:
WB, IF/ICC, FC (Intra)

Species Specificity:
human

Positive Controls:

WB : HeLa cells, HEK-293 cells, Jurkat cells, HepG2 cells

IF/ICC : HepG2 cells,

FC (Intra) : HeLa cells,

Background Information

HSP90 proteins are highly conserved molecular chaperones, which normally associate with other cochaperones and play important roles in folding newly synthesized proteins or stabilizing and refolding denatured proteins after stress. HSP90B1 (GP96 or GRP94) is an endoplasmic reticulum paralogue of the cytosolic HSP90. As a major ER chaperone to mediate the UPR and a master chaperone for Toll-like receptors (TLRs), HSP90b1 chaperones peptides to MHC class I molecules of dendritic cells and other antigen-presenting cells, as well as facilitating the assembly of immunoglobulin. The protein is also involved in many other bio-processes. This antibody was generated against the N-terminal region of full-length HSP90b1.

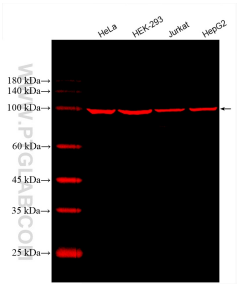
Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

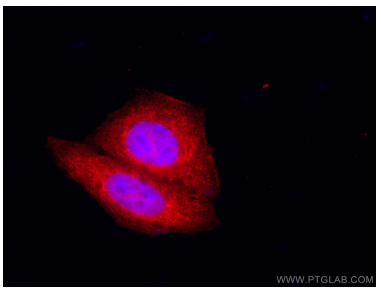
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

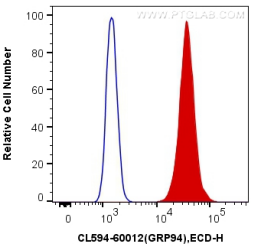
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL594-60012 (GRP94 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite®594-conjugated GRP94 antibody (CL594-60012, Clone: 4G7C7) at dilution of 1:100.



1X10^6 HeLa cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human GRP94 (CL594-60012, Clone:4G7C7) (red), or 0.4 ug Mouse IgG1 Isotype Control (CL594-66360, Clone: T1F8D3F10) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.