

For Research Use Only

GRP94 Monoclonal antibody

Catalog Number: 60012-2-Ig **5 Publications**



Basic Information

Catalog Number: 60012-2-Ig	GenBank Accession Number: BC009195	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 7184	CloneNo.: 4G7C7
Source: Mouse	UNIPROT ID: P14625	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:200-1:800 IF 1:50-1:500
Isotype: IgG1	Full Name: heat shock protein 90kDa beta (Grp94), member 1	
Immunogen Catalog Number: AG1439	Calculated MW: 96 kDa	
	Observed MW: 95 kDa	

Applications

Tested Applications: FC, IF/ICC, IHC, WB, ELISA	Positive Controls:
Cited Applications: WB	WB : HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells
Species Specificity: Human	IHC : human colon cancer tissue, human pancreas cancer tissue
Cited Species: human, mouse	IF : HepG2 cells, A431 cells

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

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Chenxue Gong	31743135	Anticancer Drugs	WB
Yuzhen Chang	38362150	Front Pharmacol	WB
Bo Wang	38008382	Virolog Sin	WB

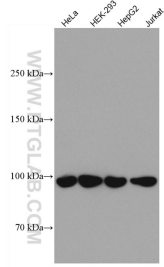
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

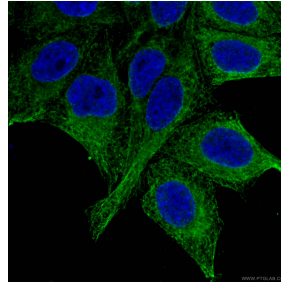
For technical support and original validation data for this product please contact:
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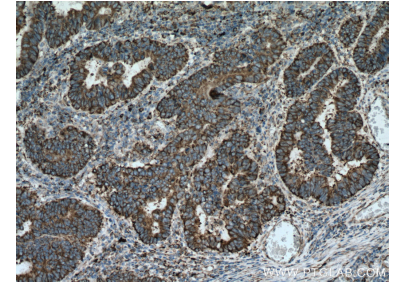
Selected Validation Data



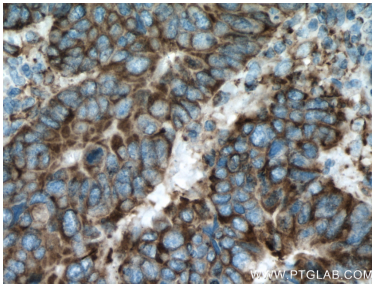
Various lysates were subjected to SDS PAGE followed by western blot with 60012-2-Ig (GRP94 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



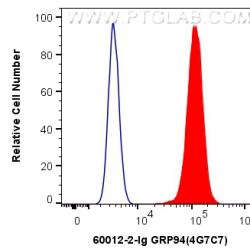
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 60012-2-Ig (GRP94 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 60012-2-Ig (GRP94 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 60012-2-Ig (GRP94 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human GRP94 (60012-2-Ig, Clone:4G7C7) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).