

For Research Use Only

GRP94 Monoclonal antibody

Catalog Number: 60012-2-Ig **7 Publications**



Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
60012-2-Ig	BC009195	Protein G purification
Concentration:	GeneID (NCBI):	CloneNo.:
920 ug/ml	7184	4G7C7
Source:	UNIPROT ID:	Recommended Dilutions:
Mouse	P14625	WB 1:2000-1:10000
Isotype:	Full Name:	IHC 1:200-1:800
IgG1	heat shock protein 90kDa beta	IF/ICC 1:400-1:1600
Immunogen Catalog Number:	(Grp94), member 1	
AG1439	Calculated MW:	
	96 kDa	
	Observed MW:	
	95 kDa	

Applications

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

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

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
Chenxue Gong	31743135	Anticancer Drugs	WB
Li-Feng-Rong Qi	39178680	Phytomedicine	WB
Yuzhen Chang	38362150	Front Pharmacol	WB

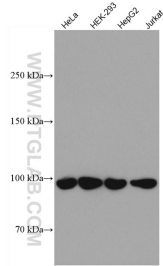
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

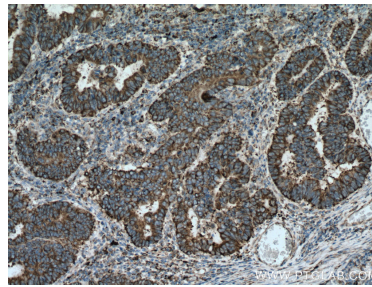
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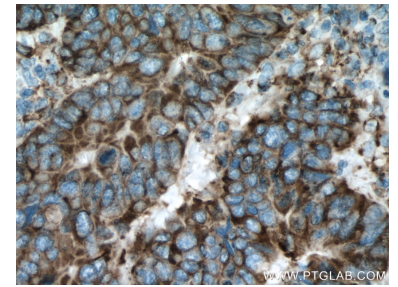
Selected Validation Data



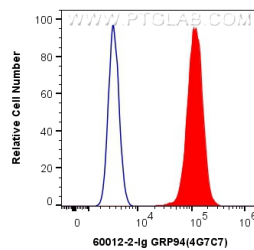
Various lysates were subjected to SDS PAGE followed by western blot with 60012-2-Ig (GRP94 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



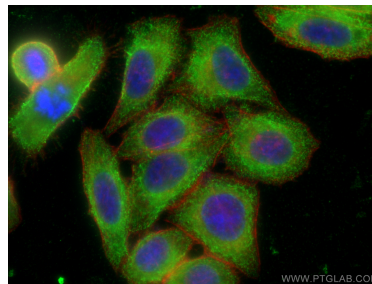
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 60012-2-Ig (GRP94 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10⁶ 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).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using GRP94 antibody (60012-2-Ig, Clone: 4G7C7) at dilution of 1:800 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red).