

For Research Use Only

GRP94 Recombinant antibody, PBS Only

Catalog Number: 83147-5-PBS



Basic Information

Catalog Number:	83147-5-PBS	GenBank Accession Number:	BC009195	Purification Method:	Protein A purification
Size:	1mg/ml	GeneID (NCBI):	7184	CloneNo.:	23050287
Source:	Rabbit	UNIPROT ID:	P14625		
Isotype:	IgG	Full Name:	heat shock protein 90kDa beta (Grp94), member 1		
Immunogen Catalog Number:	AG1439	Calculated MW:	96 kDa		
		Observed MW:	100 kDa		

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, Indirect ELISA

Species Specificity:
human, pig

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).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

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

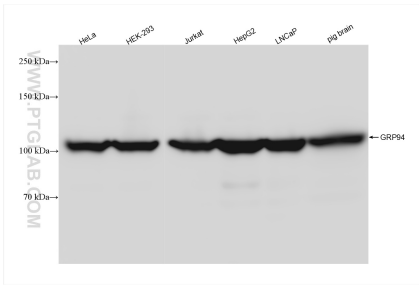
T: 4006900926

E: Proteintech-CN@ptglab.com

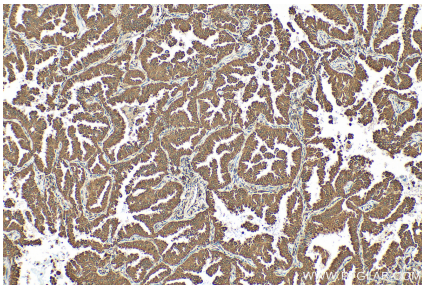
W: ptgcn.com

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

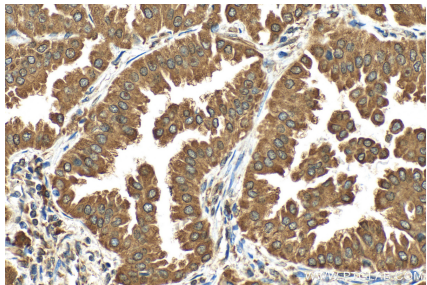
Selected Validation Data



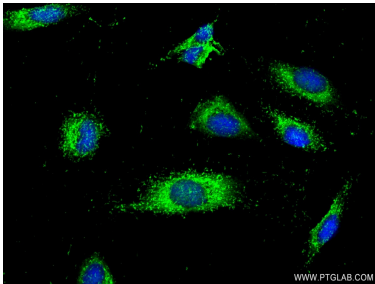
Various lysates were subjected to SDS PAGE followed by western blot with 83147-5-RR (GRP94 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83147-5-PBS in a different storage buffer formulation.



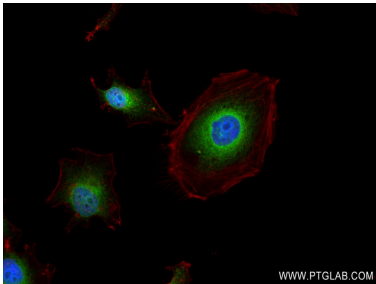
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 83147-5-RR (GRP94 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83147-5-PBS in a different storage buffer formulation.



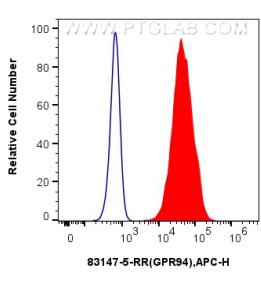
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 83147-5-RR (GRP94 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83147-5-PBS in a different storage buffer formulation.



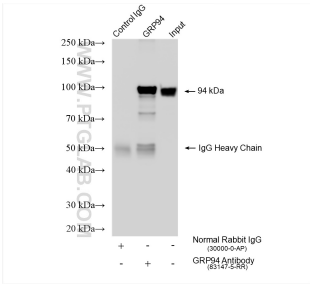
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using GRP94 antibody (83147-5-RR, Clone: 230502B7) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 83147-5-PBS in a different storage buffer formulation.



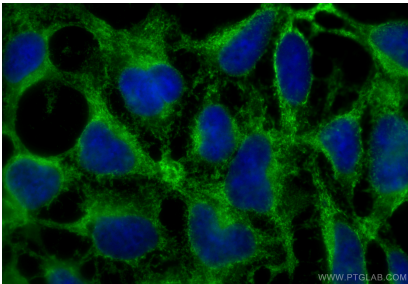
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using GRP94 antibody (83147-5-RR, Clone: 230502B7) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83147-5-PBS in a different storage buffer formulation.



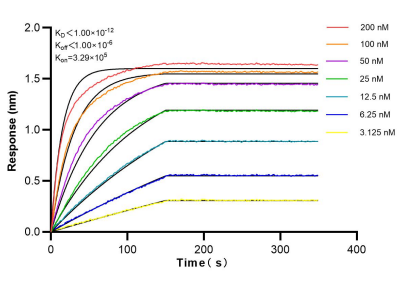
1x10⁶ A431 cells were intracellularly stained with 0.25 ug Grp94 Recombinant Antibody (83147-5-RR, Clone:230502B7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83147-5-PBS in a different storage buffer formulation.



IP result of anti-GRP94 (IP:83147-5-RR, 4ug; Detection:83147-5-RR 1:5000) with HeLa cells lysate 1260 ug. This data was developed using the same antibody clone with 83147-5-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using GRP94 antibody (83147-5-RR, Clone: 230502B7) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). This data was developed using the same antibody clone with 83147-5-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 83147-5-RR against Human GRP94 were performed. The affinity constant is below 1 pM.