For Research Use Only

GRP94 Recombinant antibody

Catalog Number:83147-5-RR

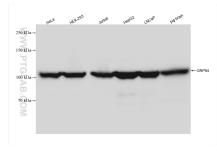


Basic Information	Catalog Number:GenBank Accession Number:83147-5-RRBC009195		mber:	Purification Method: Protein A purfication					
	Size: 100ul , Concentration: 1000 ug/ml by	GeneID (NCBI): 7184 UNIPROT ID: P14625 Full Name: heat shock protein 90kDa beta (Grp94), member 1 Calculated MW: 96 kDa		CloneNo.: 230502B7					
	21 C			Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:200-1:800 IF/ICC 1:125-1:500					
						Observed MW: 100 kDa			
					Applications	Tested Applications: WB, IHC, IF/ICC, FC (Intra), IP, ELISA		Positive Controls:	
						Species Specificity:			lls, HEK-293 cells, Jurkat cells, HepG2 cells, pig brain tissue
	human, pig		IP : HeLa cells,						
Note-IHC: suggested antigen re TE buffer pH 9.0; (*) Alternativ		IHC : human lung cancer tissue,							
retrieval may be performed w buffer pH 6.0	ith citrate	IF/ICC : HeLa	cells, HEK-293 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).								
Storage	Storage: Store at -20°C. Stable for one year after Storage Buffer:	·							
	PBS with 0.02% sodium azide and 50° Aliquoting is unnecessary for -20°C st	0, 1							

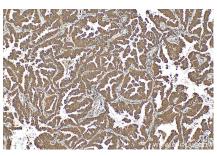
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll freeE: proteintech@ptglab.comin USA), or 1(312) 455-8498 (outside USA)W: ptglab.com

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

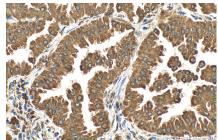
Selected Validation Data



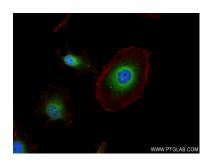
Various lysates were subjected to SDS PAGE followed by western blot with 83147-5-RR (GRP94 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



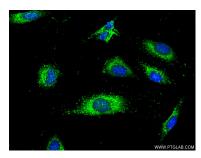
Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 83147-5-RR (GRP94 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



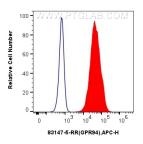
Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 83147-5-RR (GRP94 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



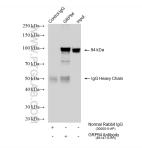
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using GRP94 antibody (83147-5-RR, Clone: 230502B7) at dilution of 1:250 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



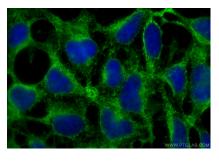
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using GRP94 antibody (83147-5-RR, Clone: 230502B7) at dilution of 1:300 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).



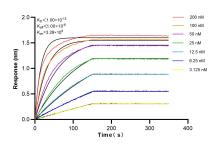
1x10⁶6 A431 cells were intracellularly stained with 0.25 ug Grp94 Recombinant Antibody (83147-5-RR, Clone:230502B7) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-GRP94 (IP:83147-5-RR, 4ug; Detection:83147-5-RR 1:5000) with HeLa cells lysate 1260 ug.



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).



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