

GRP94 Polyclonal antibody

Catalog Number: 10979-1-AP

Featured Product

7 Publications

Basic Information

Catalog Number: 10979-1-AP	GenBank Accession Number: BC009195	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 227 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7184	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200 IF 1:50-1:500
Source: Rabbit	Full Name: heat shock protein 90kDa beta (Grp94), member 1	
Isotype: IgG	Calculated MW: 96 kDa	
Immunogen Catalog Number: AG1439	Observed MW: 94 kDa	

Applications

Tested Applications: FC, IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, WB	WB : HEK-293 cells, A549 cells, K-562 cells, NIH/3T3 cells, MCF-7 cells
Species Specificity: human, mouse, rat	IP : MCF-7 cells,
Cited Species: human, rat, mouse, pig	IHC : human breast cancer tissue, human lung cancer tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IF : mouse pancreas tissue, MCF-7 cells, HEK-293 cells, human appendicitis tissue

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
Maojun Liu	28990064	Mol. Med Rep	WB
Liang Zhang	33721634	Vet Microbiol	WB
Na Liu	35093118	J Neuroinflammation	WB

Storage

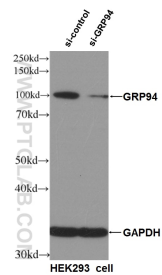
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
 Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

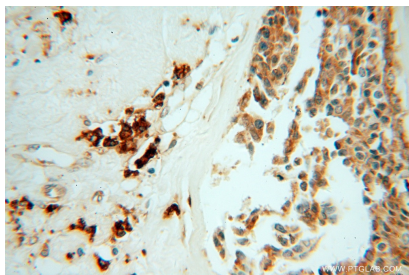
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
 W: ptglab.com

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

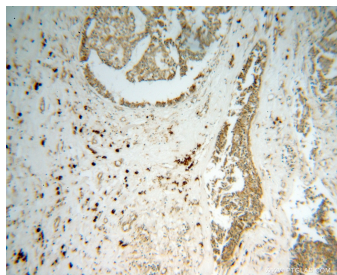
Selected Validation Data



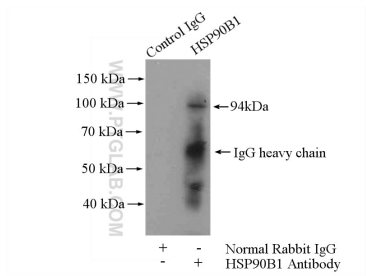
WB result of GPR94 antibody (10979-1-AP, 1:1000) with si-control and si-GRP94 transfected HEK293 cells..



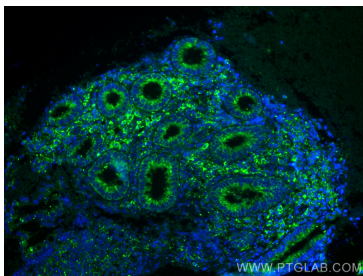
Immunohistochemical analysis of paraffin-embedded human breast cancer using 10979-1-AP (HSP90B1 antibody) at dilution of 1:50 (under 40x lens).



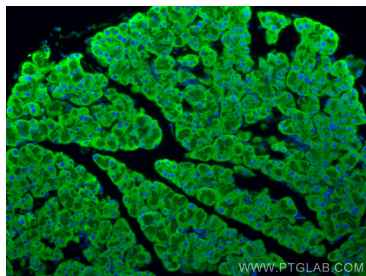
Immunohistochemical analysis of paraffin-embedded human breast cancer using 10979-1-AP (HSP90B1 antibody) at dilution of 1:50 (under 10x lens).



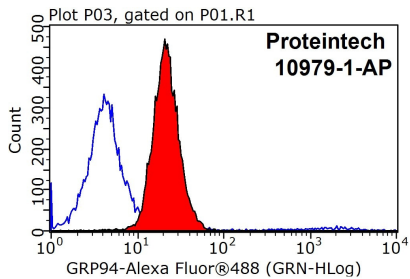
IP Result of anti-GRP94 (IP:10979-1-AP, 4ug; Detection:10979-1-AP 1:500) with MCF-7 cells lysate 4000ug.



Immunofluorescent analysis of (4% PFA) fixed human appendicitis tissue using GRP94 antibody (10979-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse pancreas tissue using GRP94 antibody (10979-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ MCF-7 cells were stained with 0.2ug GRP94 antibody (10979-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.