

GRP94 Polyclonal Antibody

Catalog number: 10979-1-AP

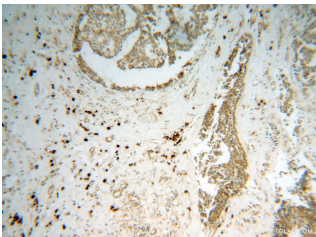
Size: 34 µg/150 µl

Source: Rabbit

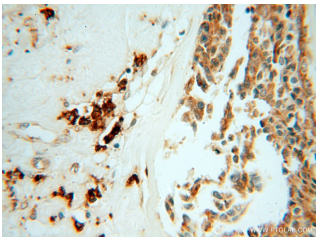
Isotype: IgG

Synonyms:

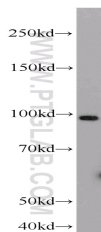
HSP90B1; ECGP, Endoplasmin, GP96, gp96 homolog, GRP 94, GRP94, HSP90B1, TRA1, Tumor rejection antigen 1



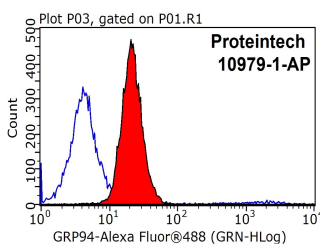
Immunohistochemical of paraffin-embedded human breast cancer using 10979-1-AP (HSP90B1 antibody) at dilution of 1:50 (under 10x lens)



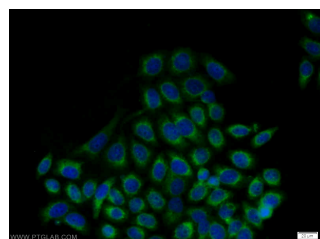
Immunohistochemical of paraffin-embedded human breast cancer using 10979-1-AP (HSP90B1 antibody) at dilution of 1:50 (under 40x lens)



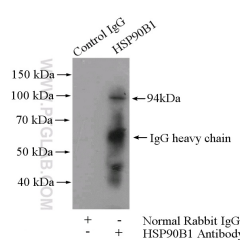
A549 cells were subjected to SDS PAGE followed by western blot with 10979-1-AP (HSP90B1 antibody) at dilution of 1:1000



1X10⁶ MCF-7 cells were



Immunofluorescent analysis



IP Result of anti-GRP94

Background

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.

Applications

Tested applications:	ELISA, WB, IHC, FC, IF, IP
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated GRP94 MW:	96 kDa
Observed GRP94 MW:	94 kDa
Positive WB detected in	A549 cells, HEK-293 cells, K-562 cells, MCF7 cells, NIH/3T3 cells
Positive IP detected in	MCF-7 cells
Positive IHC detected in	Human breast cancer tissue, human lung cancer tissue
Positive IF detected in	MCF-7 cells, HEK-293 cells
Positive FC detected in	MCF-7 cells
Recommended dilution:	WB: 1:200-1:2000 IP: 1:200-1:2000 IHC: 1:20-1:200 IF: 1:20-1:200 FC: N/A

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1439
GenBank accession number:	BC009195
Gene ID (NCBI):	7184
Full name:	Heat shock protein 90kDa beta (Grp94), member 1

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

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.

of MCF-7 cells using 10979-1-AP (GRP94 Antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)

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