antibodies

Datasheet for ABIN2481968 anti-GRP94 antibody (C-Term) (FITC)

3 Images



Overview

Quantity:	100 µg
Target:	GRP94 (HSP90B1)
Binding Specificity:	C-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GRP94 antibody is conjugated to FITC
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP), Immunocytochemistry (ICC)

Product Details

Immunogen:	Synthetic peptide corresponding to the sequence near the C-terminus of mouse GRP94
Specificity:	Detects ~94 kDa.
Cross-Reactivity:	Cow, Human, Mouse, Rat
Purification:	Peptide Affinity Purified
Target Details	
Target:	GRP94 (HSP90B1)

raiget.	GRF94 (HSF90DT)
Alternative Name:	GRP94 (HSP90B1 Products)
Background:	Grp94 (glucose regulated protein 94, gp96) is a constitutively expressed endoplasmic reticulum

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(ER) lumenal protein that is up-regulated in response to cellular stress such as heat shock,
oxidative stress or glucose depletion. Grp94 is thought to play a role in protein translocation to
the ER, in their subsequent folding and assembly, and in regulating protein secretion (1). Grp94
also plays a role in antigen presentation by accessing the endogenous pathway and eliciting
specific CTL responses to chaperone bound peptides via MHC class I pathway (2). Grp94 is a
member of the HSP90 family of stress proteins and shares sequence homology with its
cytosolic equivalent, HSP90 (3). Both HSP90 and Grp94 are calcium binding proteins (4).
Despite sharing 50 % sequence homology over its N domains and complete conservation in its
ligand binding domains with HSP90, Grp94 and HSP90 differ in their interactions with
regulatory ligands as Grp94 has weak ATP binding and hydrolyisis activity (5). Grp94 exists as a
homodimer and the two subunits interact at two distinct intermolecular sites, C terminal
dimerization domains and the N-terminal interacts with the middle domain of opposing
subunits. (6). Grp94 contains a carboxy terminal KDEL (Lys-Asp-Glu-Leu) sequence which is
believed to aid in its retention in the ER (7).

Gene ID:	22027
NCBI Accession:	NP_035761
UniProt:	P08113
Pathways:	Thyroid Hormone Synthesis, Activation of Innate immune Response, ER-Nucleus Signaling, Toll- Like Receptors Cascades

Application Details

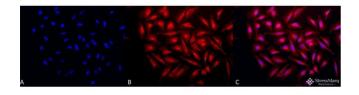
Application Notes:	 WB (1:1000) ICC/IF (1:120) IP (1:80) optimal dilutions for assays should be determined by the user.
Comment:	1 μg/ml of ABIN2481968 was sufficient for detection of Grp94 in 20 μg of Hela lysate by colorimetric immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL

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Handling

Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C

Images

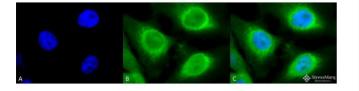


Immunofluorescence (fixed cells)

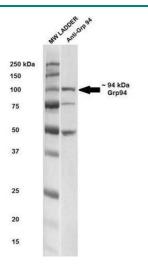
Image 1. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-GRP94 Polyclonal Antibody . Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-GRP94 Polyclonal Antibody at 1:120 for 12 hours at 4°C. Secondary Antibody: APC Goat Anti-Rabbit (red) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Endoplasmic reticulum lumen. Melanosome. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-GRP94 Antibody. (C) Composite. Heat Shocked at 42°C for 1h.

Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-GRP94 Polyclonal Antibody . Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-GRP94 Polyclonal Antibody at 1:120 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Endoplasmic reticulum lumen. Melanosome. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-GRP94 Antibody. (C) Composite. Heat Shocked at 42°C for 1h.







Western Blotting

Image 3. Western blot analysis of Rat brain cell lysates showing detection of ~ 94-100 kDa GRP94 protein using Rabbit Anti-GRP94 Polyclonal Antibody . Lane 1: MW ladder. Lane 2: Anti-GRP94 (1:250). Load: 20 μg. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-GRP94 Polyclonal Antibody at 1:250 for 1 hour at RT. Secondary Antibody: Goat Anti-Mouse HRP antibody at 1:50-1:100 for 1 hour at RT. Color Development: TMB solution for 5 min at RT. Predicted/Observed Size: ~ 94-100 kDa. Other Band(s): ~50, ~75 kDa.

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