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Anti-GRP94 Antibody

Rabbit Anti-Mouse GRP94 Polyclonal
Catalog No. SPC-101



Discovery through partnership | Excellence through quality

Overview

Product Name

GRP94 Antibody

Description

Rabbit Anti-Mouse GRP94 Polyclonal

Species Reactivity

Human, Mouse, Rat, Bovine

Applications

WB, IHC, ICC/IF, IP

Antibody Dilution

WB (1:1000), ICC/IF (1:120), IP (1:80); optimal dilutions for assays should be determined by the user.

Host Species

Rabbit

Immunogen Species

Mouse

Immunogen

Synthetic peptide corresponding to the sequence near the C-terminus of mouse GRP94

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Peptide Affinity Purified

Clonality

Polyclonal

Specificity

Detects ~94kDa.

Cite This Product

Rabbit Anti-Mouse GRP94 Polyclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPC-101)

Certificate Of Analysis

1 µg/ml of SPC-101 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.

Biological Description

Alternative Names

HSP90B1 Antibody, GP96 Antibody, TRA1 Antibody, ECGP Antibody

Research Areas

Cancer, Heat Shock, Cell Signaling, Trafficking

Cellular Localization

Endoplasmic Reticulum, Endoplasmic reticulum lumen, Melanosome

Accession Number

NP_035761.1

Gene ID

22027

Swiss Prot

P08113

Scientific Background

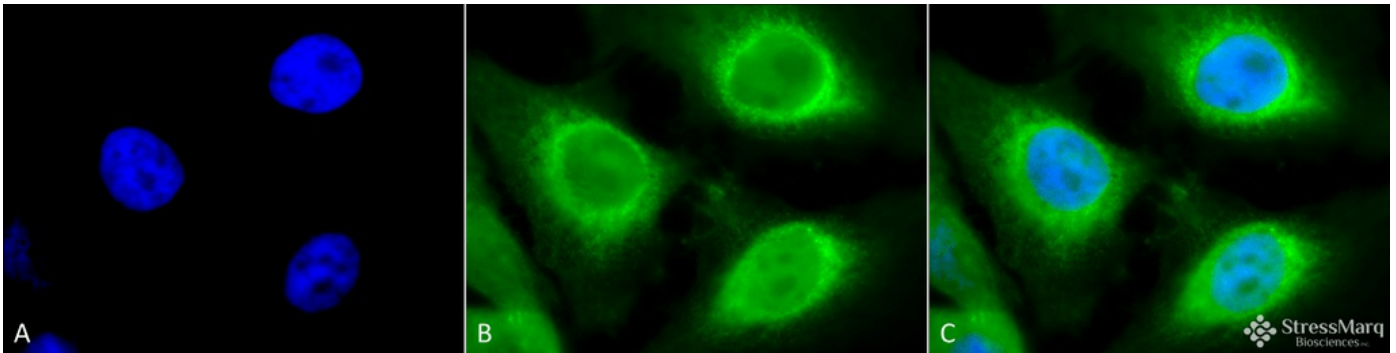
Grp94 (glucose regulated protein 94, gp96) is a constitutively expressed endoplasmic reticulum (ER) luminal protein that is up-regulated in response to cellular stress such as heat shock, oxidative stress or glucose depletion. Grp94 is thought to play a role in protein translocation to the ER, in their 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 hydrolysis 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).

References

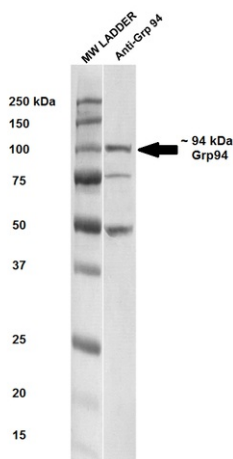
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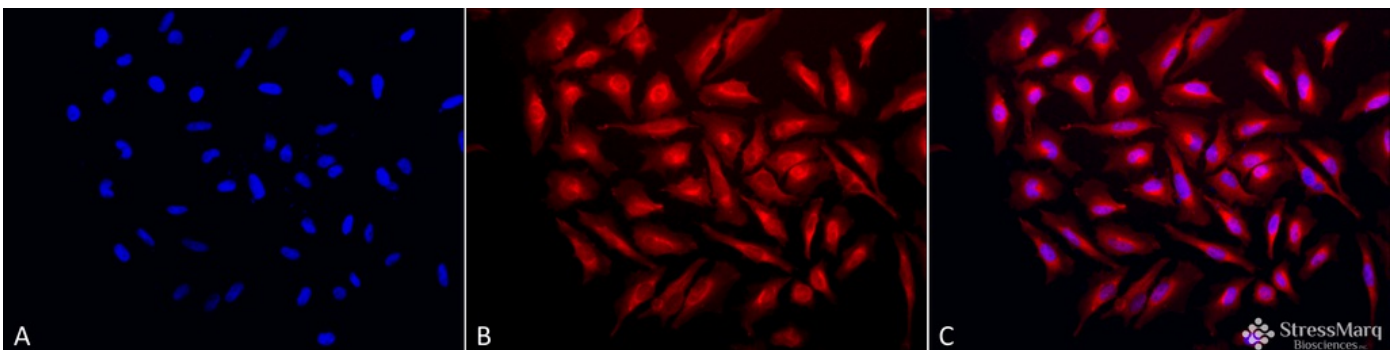
Product Images



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-GRP94 Polyclonal Antibody (SPC-101). Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-GRP94 Polyclonal Antibody (SPC-101) 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 blot analysis of Rat brain cell lysates showing detection of ~ 94-100 kDa GRP94 protein using Rabbit Anti-GRP94 Polyclonal Antibody (SPC-101). 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 (SPC-101) 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.



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-GRP94 Polyclonal Antibody (SPC-101). Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-GRP94 Polyclonal Antibody (SPC-101) 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.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.