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Zuschläge

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Anti-Calnexin-CT Antibody

Rabbit Anti-Dog Calnexin-CT Polyclonal
Catalog No. SPC-182



Discovery through partnership | Excellence through quality

Overview

Product Name

Calnexin-CT Antibody

Description

Rabbit Anti-Dog Calnexin-CT Polyclonal

Species Reactivity

Dog, Human, Monkey, Mouse, Rat, African clawed frog (*Xenopus laevis*), Avian, Bovine, Chicken, Fruit Fly (*Drosophila melanogaster*), Guinea Pig (*Cavia porcellus*), Hamster, Pig, Quail, Rabbit, Sheep

Applications

WB, IHC, ICC/IF, IP, FCM

Antibody Dilution

WB (1:2000), ICC/IF (1:100), IHC (1:100); optimal dilutions for assays should be determined by the user.

Host Species

Rabbit

Immunogen Species

Dog

Immunogen

Dog Calnexin C-terminal synthetic peptide conjugated to KLH. Identical to human, mouse and rat calnexin sequences over these residues.

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 pH 7.2, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein A purified

Clonality

Polyclonal

Specificity

Detects the C-terminal domain of Calnexin ~90kDa. Weak detection in Chicken, Drosophila, and Xenopus tissues

Cite This Product

Rabbit Anti-Dog Calnexin Polyclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPC-182)

Certificate Of Analysis

A 1:2000 dilution of SPC-182 was sufficient for detection of Calnexin in 10 µg of HeLa cell lysate by ECL immunoblot analysis.

Biological Description

Alternative Names

Calnexin antibody, CALX_HUMAN antibody, CANX antibody, CNX antibody, FLJ26570 antibody, Histocompatibility complex class I antigen binding protein p88 antibody, IP90 antibody, Major histocompatibility complex class I antigen-binding protein p88 antibody, P90 antibody

Research Areas

Cell Signaling, Organelle Markers

Cellular Localization

Endoplasmic Reticulum, Endoplasmic reticulum membrane, Melanosome

Accession Number

NP_001003232.1

Gene ID

403908

Swiss Prot

P24643

Scientific Background

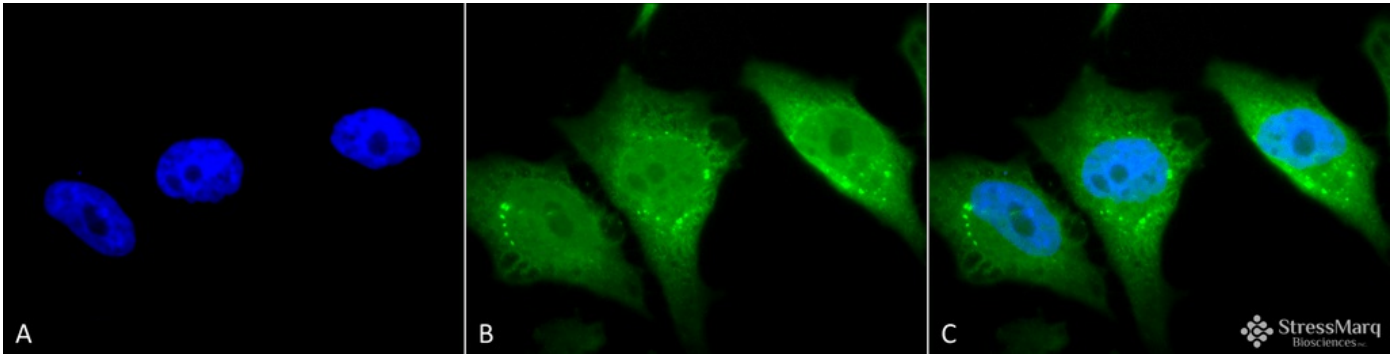
Calnexin, an abundant ~90kDa integral protein of the endoplasmic reticulum, is also referred to as IP90, p88 and p90 (1). It consists of a large 50kDa N-terminal calcium-binding luminal domain, a single transmembrane helix and a short acidic cytoplasmic tail (2, 3). Unlike its ER counterparts which have a KDEL sequence on their C-terminus to ensure ER retention (4), calnexin has positively charged cytosolic residues that do the same thing (3). Most ER proteins act as molecular chaperones and participate in the proper folding of polypeptides and their assembly into multi-subunit proteins. Calnexin together with calreticulin, plays a key role in glycoprotein folding and its control within the ER, by interacting with folding intermediates via their mono-glycosylated glycans (5, 6). Calnexin has also been shown to associate with the major histocompatibility complex class I heavy chains, partial complexes of the T cell receptor and B cell membrane immunoglobulin (7).

References

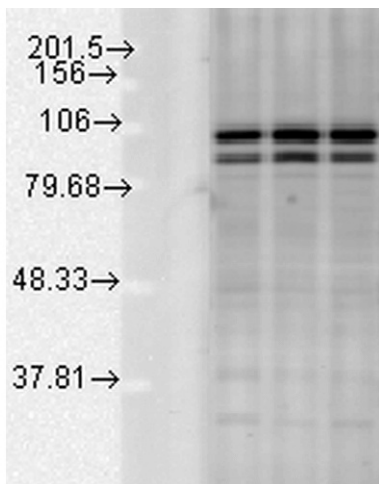
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2. Tjoelker L.W., et al. (1994) *Biochemistry*. 33: 3229.
3. Schrag J. et al. (2001) *Molecular Cell*. 8(3): 633-644.
4. Janiszewski M. (2005) *J. Biol Chem*. 280(49): 40813-40819.
5. Elagoz A., Callejo M., Armstrong J., and Rokeach L. A. (1999) *J. Cell Sci*. 112: 4449-4460.

6. Otteken A. and Moss B. (1996) J Bio Chem. 271(1): 97-103.
7. Galvin K. et al. (1992) Proc Natl Acad Sci USA. 89(18): 8452-6.

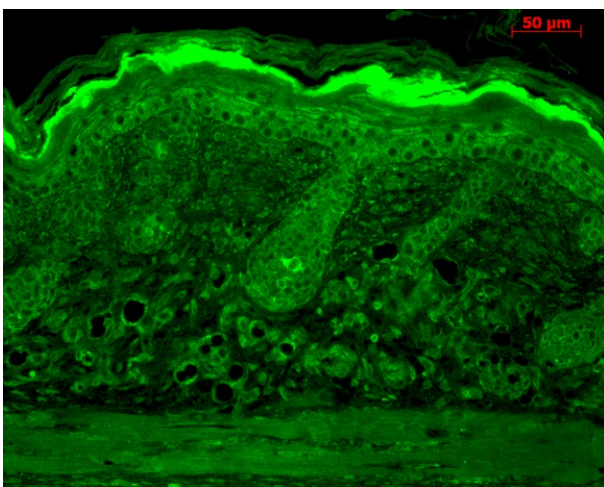
Product Images



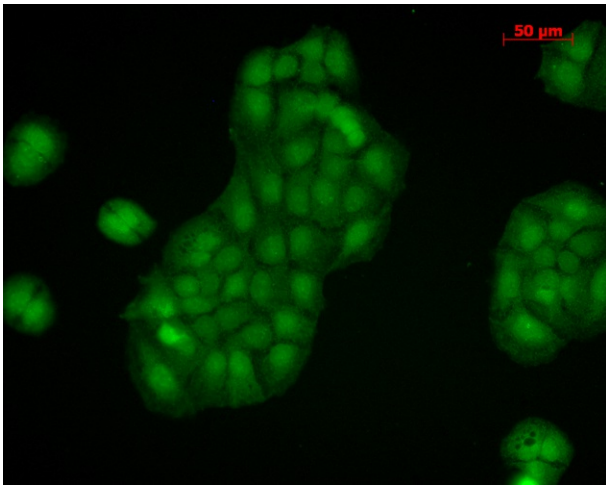
Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Calnexin-CT Polyclonal Antibody (SPC-182). Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-Calnexin-CT Polyclonal Antibody (SPC-182) at 1:80 for 12 hours at 4°C. 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 membrane. Melanosome. Magnification: 100x. Heat Shocked at 42°C for 1h.



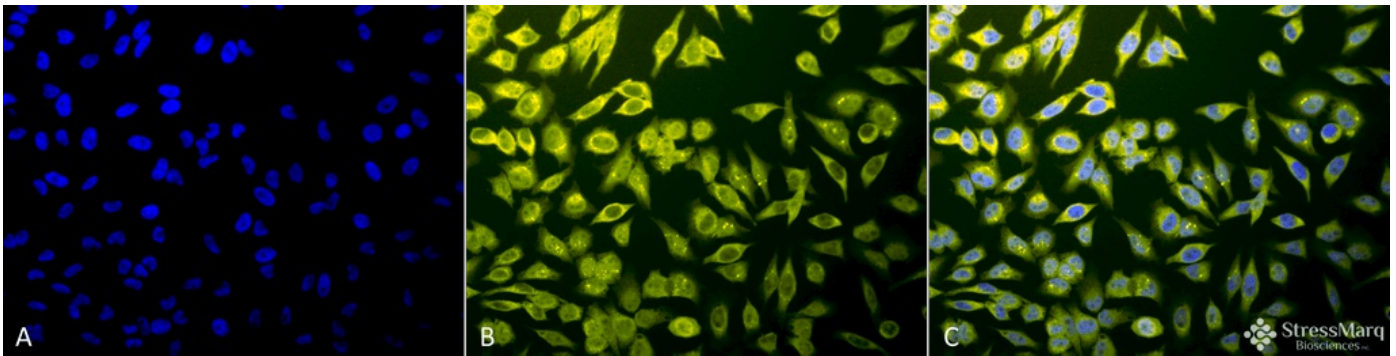
Western blot analysis of Rat tissue mix showing detection of Calnexin-CT protein using Rabbit Anti-Calnexin-CT Polyclonal Antibody (SPC-182). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Rabbit Anti-Calnexin-CT Polyclonal Antibody (SPC-182) at 1:1000 for 2 hours at RT. Secondary Antibody: Donkey Anti-Rabbit IgG: HRP for 1 hour at RT.



Immunohistochemistry analysis using Rabbit Anti-Calnexin-CT Polyclonal Antibody (SPC-182). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative Solution. Primary Antibody: Rabbit Anti-Calnexin-CT Polyclonal Antibody (SPC-182) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:50 for 1 hour at RT. Localization: Hair Follicles, Basal cells in epidermis, and second layer of epidermis.



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Calnexin-CT Polyclonal Antibody (SPC-182). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol at -20C for 10 minutes. Primary Antibody: Rabbit Anti-Calnexin-CT Polyclonal Antibody (SPC-182) at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit at 1:50 for 1-2 hours at RT in dark. Localization: Nuclear staining, cytoplasmic staining.



Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Calnexin-CT Polyclonal Antibody (SPC-182). Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-Calnexin-CT Polyclonal Antibody (SPC-182) at 1:80 for 12 hours at 4°C. Secondary Antibody: R-PE Goat Anti-Rabbit (yellow) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Endoplasmic reticulum membrane. Melanosome. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-Calnexin-CT 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.