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Anti-Calnexin-NT Antibody

Rabbit Anti-Human Calnexin-NT Polyclonal
Catalog No. SPC-127



Discovery through partnership | Excellence through quality

Overview

Product Name

Calnexin-NT Antibody

Description

Rabbit Anti-Human Calnexin-NT Polyclonal

Species Reactivity

Dog, Human, Monkey, Mouse, Rat, African clawed frog (*Xenopus laevis*), Bovine, Chicken, Guinea Pig (*Cavia porcellus*), Hamster, Pig, Rabbit, Sheep

Applications

WB, IHC, ICC/IF, IP

Antibody Dilution

WB (1:5000), IHC (1:100), ICC/IF (1:100), IP (1:100); optimal dilutions for assays should be determined by the user.

Host Species

Rabbit

Immunogen Species

Human

Immunogen

A 19 residue synthetic peptide based on dog calnexin and the peptide coupled to KLH

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

Rabbit Antiserum

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Rabbit antiserum

Clonality

Polyclonal

Specificity

Detects the N-terminal domain of Calnexin ~90kDa.

Cite This Product

Rabbit Anti-Human Calnexin Polyclonal (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SPC-127)

Certificate Of Analysis

A 1:5000 dilution of SPC-127 was sufficient for detection of Calnexin in 20 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

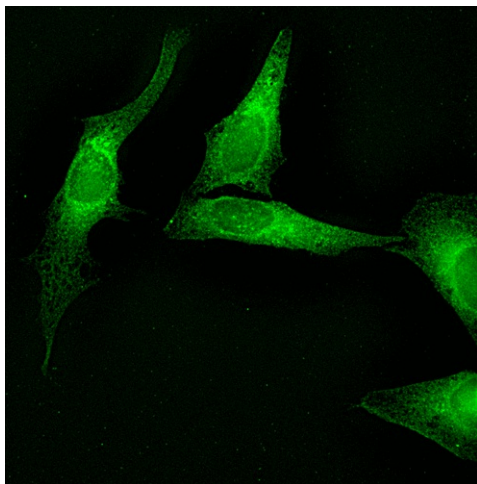
Scientific Background

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).

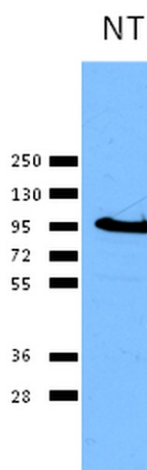
References

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 2. Tjoelker L.W., et al. (1994) *Biochemistry* 33:3229.
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 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.
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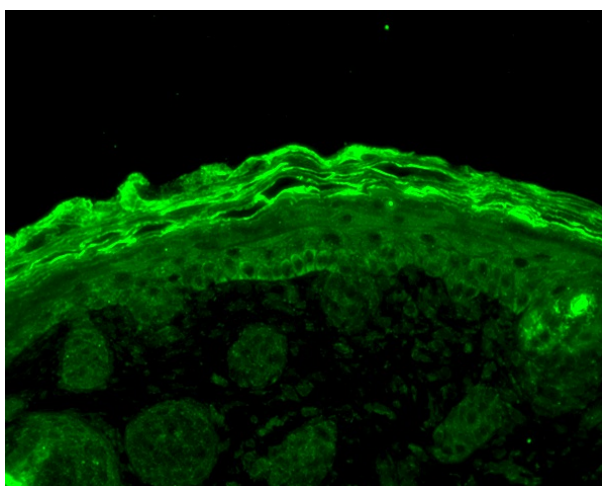
Product Images



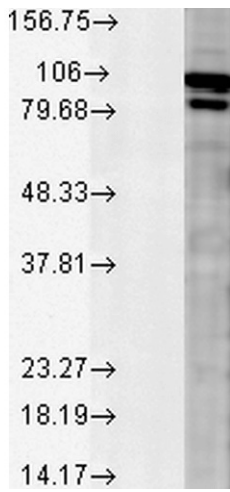
Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127). Tissue: HeLa cells. Species: Human. Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127) at 1:100. Secondary Antibody: FITC Goat Anti-Rabbit (green).



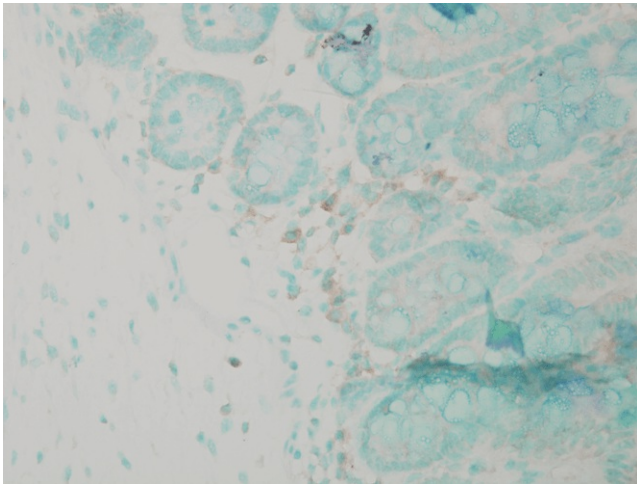
Western blot analysis of Human HeLa cell lysates showing detection of Calnexin protein using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127). Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127) at 1:1000.



Immunohistochemistry analysis using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative Solution. Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:50 for 1 hour at RT. Localization: Upper layer staining and few basal cell cytoplasmic staining.



Western blot analysis of Rat tissue mix showing detection of Calnexin protein using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127) at 1:5000 for 2 hours at RT. Secondary Antibody: Donkey Anti-Rabbit IgG: HRP for 1 hour at RT.



Immunohistochemistry analysis using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127). Tissue: colon colitis. Species: Mouse. Fixation: Formalin. Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-127) at 1:100000 for 12 hours at 4°C. Secondary Antibody: Biotin Goat Anti-Rabbit at 1:2000 for 1 hour at RT. Counterstain: Methyl Green at 200uL for 2 min at RT. Localization: Inflammatory cells.

Product Citations (1)

Immunocytochemistry/Immunofluorescence

β1D chain increases β7 integrin and laminin and protects against sarcolemmal damage in mdx mice.

Liu, J., Milner, D.J., Boppart, M.D., Ross, R.S. and Kaufman, S.J. -2012 Hum Mol Genet. 21 (7): 1592-1603.

PubMed ID: 22180459 **Reactivity:** Mouse **Applications:** Immunocytochemistry/Immunofluorescence

Reviews

Based on validation through cited publications.



StressMarq Biosciences

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