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Zuschläge

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Anti-Calnexin-CT Antibody

Rabbit Anti-Dog Calnexin-CT Polyclonal
Catalog No. SPC-108



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, ICC/IF, IHC

Antibody Dilution

WB (1:1000), IHC (1:100), ICC/IF (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 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 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-108)

Certificate Of Analysis

A 1:1000 dilution of SPC-108 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

Cytoplasm, Endoplasmic Reticulum, Endoplasmic reticulum lumen, Melanosome

Accession Number

NP_001003232.1

Gene ID

403908

Swiss Prot

P24643

Scientific Background

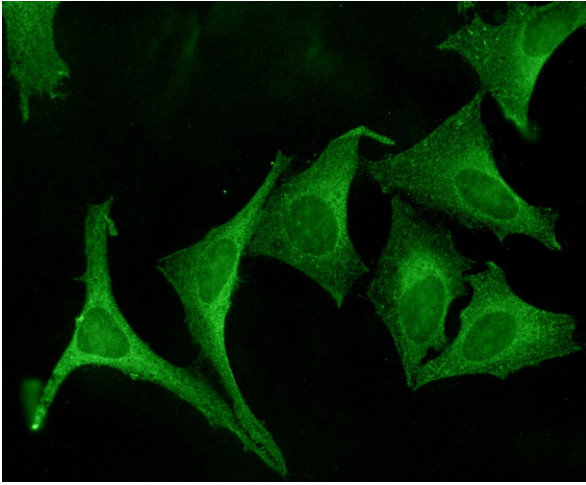
Calnexin, an abundant ~90kDa integral protein of the endoplasmic reticulum, is also referred to as IP90, p88 and p90 (1). It consists of a large 50kDa N-terminal calcium-binding luminal domain, a single transmembrane helix and a short acidic cytoplasmic tail (2, 3). Unlike its ER counterparts which have 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

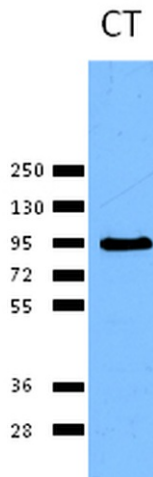
1. Rajagopalan S., Xu Y., and Brenner M.B. (1994) *Science* 263(5145): 387-90.
2. Tjoelker L.W., et al. (1994) *Biochemistry* 33: 3229.
3. Schrag J. et al. (2001) *Molecular Cell* 8(3): 633-644.
4. Janiszewski M. (2005) *J. Biol Chem.* 280(49): 40813-40819.
5. Elagoz A., Callejo M., Armstrong J., and 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.

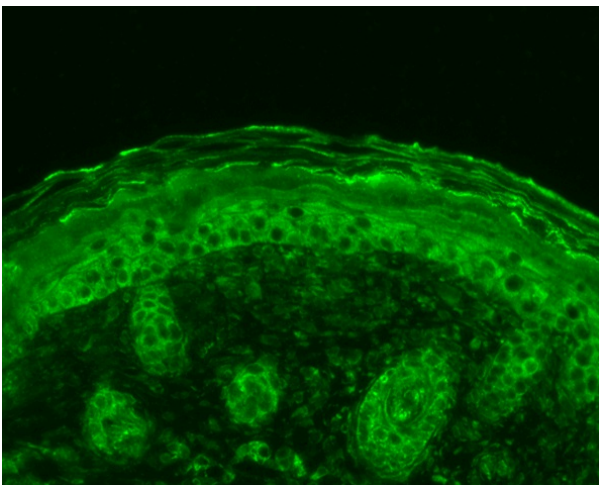
Product Images



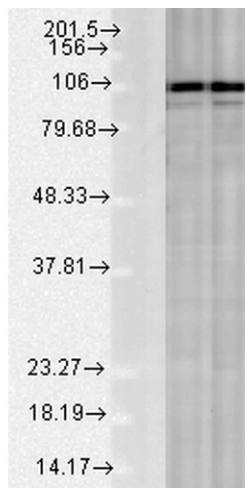
Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-108). Tissue: HeLa cells. Species: Human. Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-108) at 1:100. Secondary Antibody: FITC Goat Anti-Rabbit (green).



Western blot analysis of Human HeLa cell lysates showing detection of Calnexin protein using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-108). Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-108) at 1:1000.



Immunohistochemistry analysis using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-108). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative Solution. Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-108) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:50 for 1 hour at RT.



Western blot analysis of Rat Tissue lysates showing detection of Calnexin protein using Rabbit Anti-Calnexin Polyclonal Antibody (SPC-108). Load: 15 µg protein. Block: 1.5% BSA. Primary Antibody: Rabbit Anti-Calnexin Polyclonal Antibody (SPC-108) at 1:1000 for 2 hours at RT. Secondary Antibody: Donkey Anti-Rabbit IgG: HRP for 1 hour at RT.

Product Citations (9)

Western Blot

Dihydroceramide accumulation mediates cytotoxic autophagy of cancer cells via autolysosome destabilization.

Hernández-Tiedra, S. et al. (2016) Autophagy. [Epub ahead of print]

PubMed ID: 27635674 **Reactivity:** Human **Applications:** Western Blot

Immunohistochemistry

Nucleobindin 1 (NUCB1) is a Golgi-resident marker of neurons.

Tulke, S. et al. (2015) Neuroscience. [Epub ahead of print]

PubMed ID: 26666627 **Reactivity:** Rat **Applications:** Immunohistochemistry

Immunocytochemistry/Immunofluorescence

A recombinant DNA vaccine protects mice deficient in the alpha/beta interferon receptor against lethal challenge with Usutu virus.

Martín-Acebe, S. M.A. et al. (2016) Vaccine. [Epub ahead of print]

PubMed ID: 26993334 **Reactivity:** Mouse **Applications:** Immunocytochemistry/Immunofluorescence

Functional Rescue of Trafficking-Impaired ABCB4 Mutants by Chemical Chaperones.

Gordo-Gilart, R., Andueza, S., Hierro, L., Jara, P. and Alvarez, L. (2016) PLoS One. 11(2):e0150098.

PubMed ID: 26900700 **Reactivity:** Dog **Applications:** Immunocytochemistry/Immunofluorescence

CCDC115 Deficiency Causes a Disorder of Golgi Homeostasis with Abnormal Protein Glycosylation

Jansen, J.C. et al. (2016) Am J Hum Genet. [Epub ahead of print]

PubMed ID: **Reactivity:** Human **Applications:** Immunocytochemistry/Immunofluorescence

Heterozygous ABCB4 mutations in children with cholestatic liver disease.

Gordo-Gilart, R. et al. (2015) Liver Int. [Epub ahead of print]

PubMed ID: 26153658 **Reactivity:** Human **Applications:** Immunocytochemistry/Immunofluorescence

Functional analysis of ABCB4 mutations relates clinical outcomes of progressive familial intrahepatic cholestasis type 3 to the degree of MDR3 floppase activity.

Gordo-Gilart, R. et al. (2014) Gut. 64(1):147-55.

PubMed ID: 24594635 **Reactivity:** Human **Applications:** Immunocytochemistry/Immunofluorescence

Expression of nucleobindin 1 (NUCB1) in pancreatic islets and other endocrine tissues.

Williams, P., Tulke, S., Ilegems, E., Berggren, P.O., Broberger, C. (2014) Cell Tissue Res. 358(2):331-42.

PubMed ID: 25038744 **Reactivity:** Mouse **Applications:** Immunocytochemistry/Immunofluorescence

The Composition of West Nile virus Lipid Envelope Unveils a Role of Sphingolipid Metabolism on Flavivirus Biogenesis.

Martín-Acebes, M. A. et al. (2014) J Virol. 88(20):12041-54.

PubMed ID: 25122799 **Reactivity:** Human **Applications:** Immunocytochemistry/Immunofluorescence

Reviews

Based on validation through cited publications.



StressMarq Biosciences

June 15, 2016: