



Calnexin Rabbit mAb

Catalog No	YP-rAb-17533
Isotype	IgG
Reactivity	Human
Applications	WB,IHC,IF,ELISA
Gene Name	CANX
Protein Name	Calnexin
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:2000-1:10000; WB 1:1000-1:5000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	Calnexin;CANX ; Calnexin ; IP90 ; Major histocompatibility complex class I antigen-binding protein p88 ; p90;CANX
Observed Band	90kD
Calculated Molecular Weight	68kD
Cell Pathway	Endoplasmic reticulum membrane ; Single-pass type I membrane protein . Endoplasmic reticulum . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:12643545, PubMed:17081065). The palmitoylated form preferentially localizes to the perinuclear rough ER (PubMed:22314232). .
Tissue Specificity	B-cell lymphoma,Epithelium,Fibroblast,Keratinocyte,Kidney,Liver,Lymph,Placenta,Plate let,
Function	Calcium-binding protein that interacts with newly synthesized glycoproteins in the endoplasmic reticulum. It may act in assisting protein assembly and/or in the retention within the ER of unassembled protein subunits. It seems to play a major role in the quality control apparatus of the ER by the retention of incorrectly folded proteins.,online information:Calnexin entry,similarity:Belongs to the calreticulin family.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,





Background

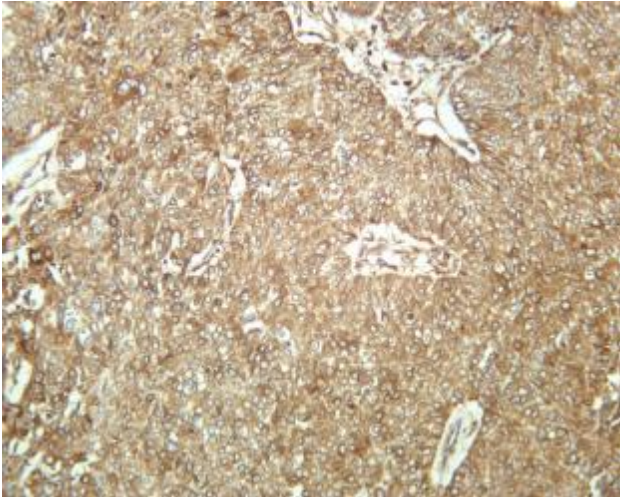
This gene encodes a member of the calnexin family of molecular chaperones. The encoded protein is a calcium-binding, endoplasmic reticulum (ER)-associated protein that interacts transiently with newly synthesized N-linked glycoproteins, facilitating protein folding and assembly. It may also play a central role in the quality control of protein folding by retaining incorrectly folded protein subunits within the ER for degradation. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq, Jul 2008],

matters needing attention

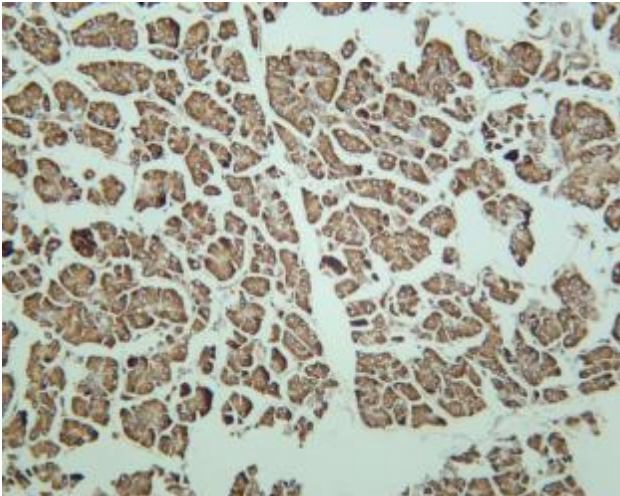
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

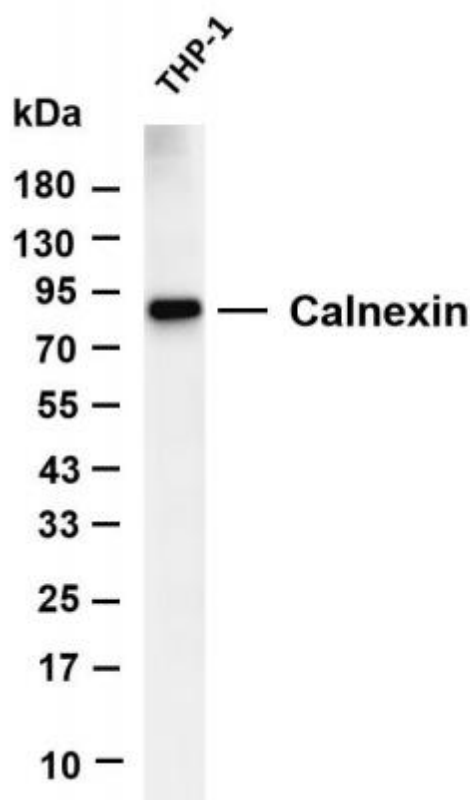


Human breast carcinoma was stained with anti-Calnexin rabbit antibody

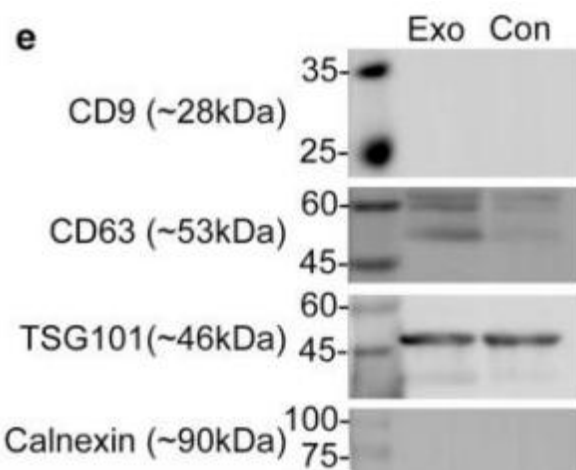


Human pancreas was stained with anti-Calnexin rabbit antibody

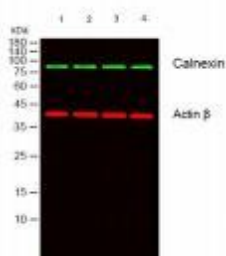




Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Calnexin antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: THP-1 Predicted band size: 68kDa Observed band size: 90kDa



Zhang, Z., Xu, R., Yang, Y. et al. Micro/nano-textured hierarchical titanium topography promotes exosome biogenesis and secretion to improve osseointegration. J Nanobiotechnol 19, 78 (2021).



Western blot analysis of lysates from 1) HCT116, 2) HEK293, 3) MCF-7, 4) A549 cells, (Green) primary antibody was diluted at 1:1000, 4 ° over night, secondary antibody(cat:RS23920)was diluted at 1:10000, 37 ° 1hour. (Red) Actin β Monoclonal Antibody(5B7) (cat:YM3028) antibody was diluted at 1:5000 as loading control, 4 ° over night,secondary antibody(cat:RS23710)was diluted at 1:10000, 37 ° 1hour.

