Calnexin Rabbit mAb

Catalog No: #49102

Package Size: #49102-1 50ul #49102-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

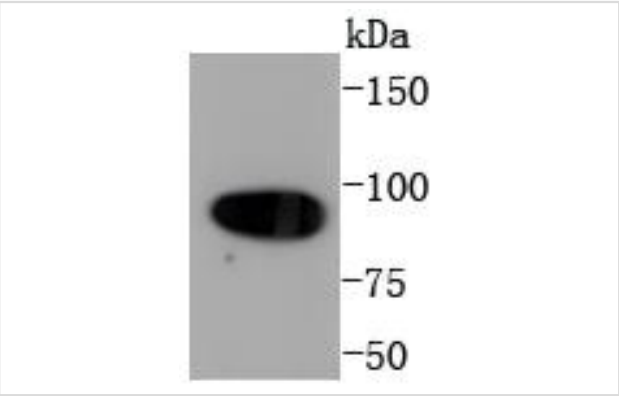
Description

Product Name	Calnexin Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SN20-54
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Human;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other 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
Accession No.	Swiss-Prot#:P27824
Calculated MW	90 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

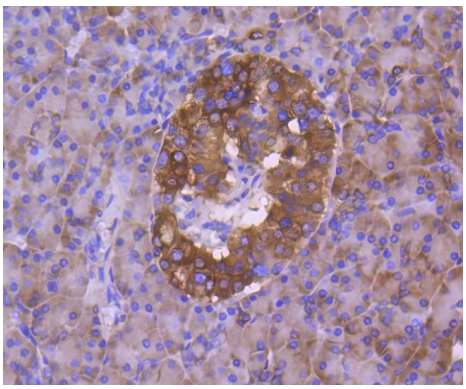
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200 ICC: 1:100-1:500FC: 1:50-1:100

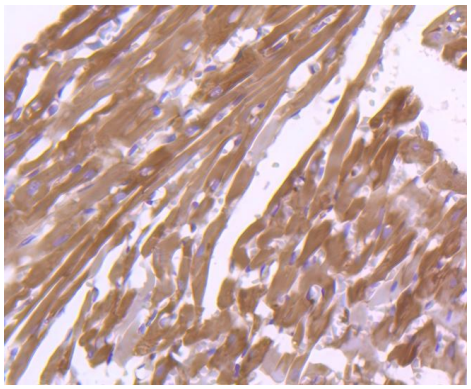
Images



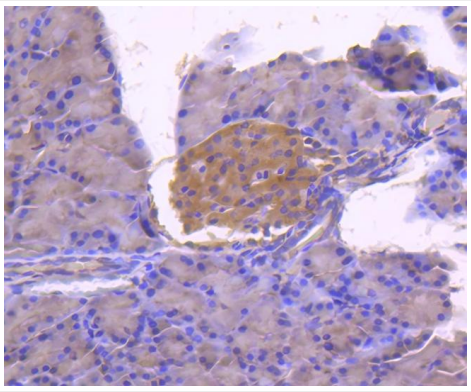
Western blot analysis of Calnexin on Hela cells lysates using anti-Calnexin antibody at 1/1,000 dilution.



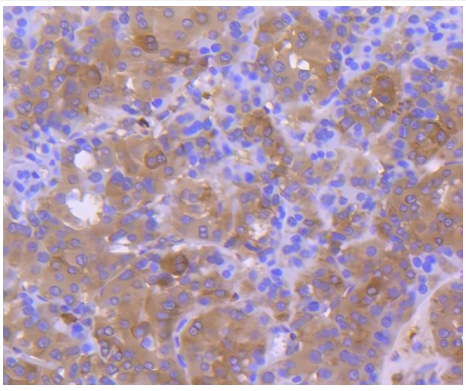
Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-Calnexin antibody. Counter stained with hematoxylin.



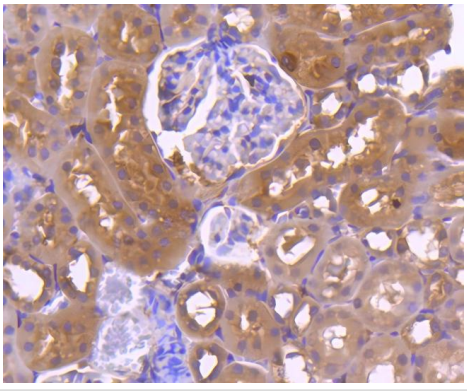
Immunohistochemical analysis of paraffin-embedded rat heart tissue using anti-Calnexin antibody. Counter stained with hematoxylin.



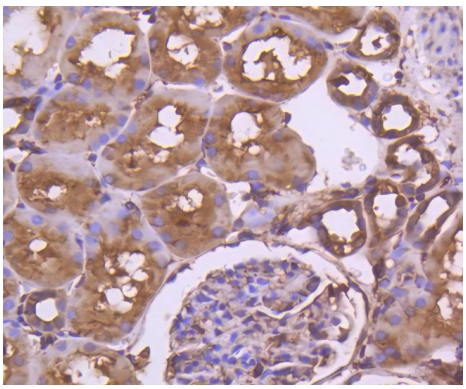
Immunohistochemical analysis of paraffin-embedded rat pancreas tissue using anti-Calnexin antibody. Counter stained with hematoxylin.



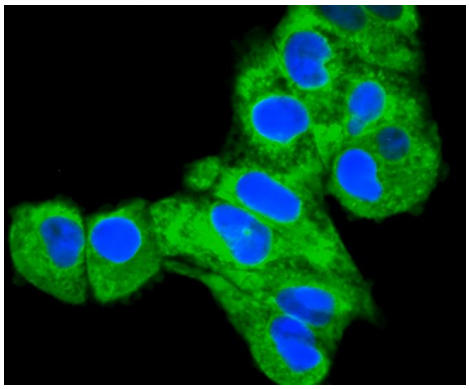
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-Calnexin antibody. Counter stained with hematoxylin.



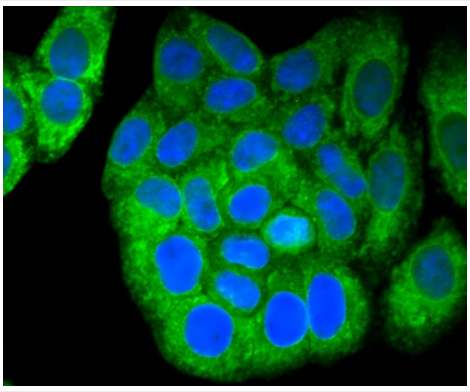
Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-Calnexin antibody. Counter stained with hematoxylin.



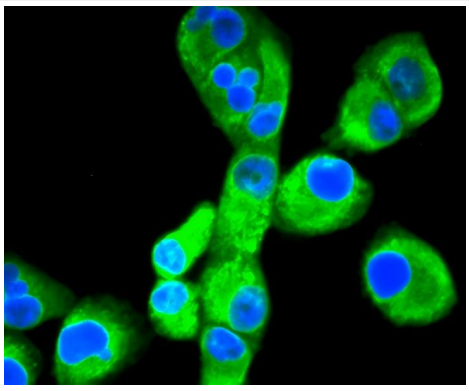
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Calnexin antibody. Counter stained with hematoxylin.



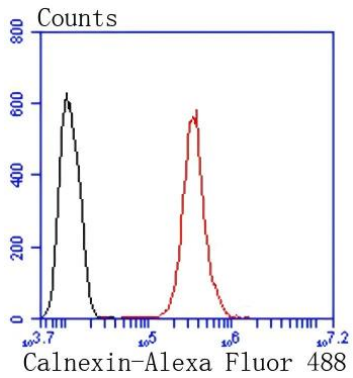
ICC staining Calnexin in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Calnexin in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Calnexin in PANC-1 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with Calnexin antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

Calnexin and Calregulin (also called calreticulin) are calcium-binding proteins that are localized to the endoplasmic reticulum, Calnexin to the membrane and Calregulin to the lumen. Calnexin is a type I membrane protein that interacts with newly synthesized glycoproteins in the endoplasmic reticulum. It may play a role in assisting with protein assembly and in retaining unassembled protein subunits in the endoplasmic reticulum. Calregulin has both low- and high-affinity calcium-binding sites. Neither Calnexin nor Calregulin contains the calcium-binding oΩ½oΩ½E-F handoΩ½oΩ½ motif found in calmodulins. Calnexin and Calregulin are important for the maturation of glycoproteins in the endoplasmic reticulum and appear to bind many of the same proteins.

References

1. Noy PJ et al. TspanC8 Tetraspanins and A Disintegrin and Metalloprotease 10 (ADAM10) Interact via Their Extracellular Regions: EVIDENCE FOR DISTINCT BINDING MECHANISMS FOR DIFFERENT TspanC8 PROTEINS. J Biol Chem 291:3145-57 (2016). 2. Askautrud HA et al. Global gene expression analysis reveals a link between NDRG1 and vesicle transport. PLoS One 9:e87268 (2014).

Published Papers

Dong Anqi, Shen Wenhao, Shen Xiaochun, Liu Shu, Li Dongbao, Li Min, Li Minghui, Ma Yan, Zhou Jin, Hu Lin, Yang Kai el at., NK Cellβ • Derived Small Extracellular Vesicles Armed With CLDN4β • Targeting Peptides Potentiate Radiotherapy in Gastric Cancer, Journal of extracellular vesicles, (2025)

PMID:41252335

Zhang Weilin, Liu Kuize, Li Zhencong, Feng Dao, Zhou Boyuan, Zhao Wei, Huang Shengbang, Dai Zhiwen, Liang Jinguo, Chen Siyuan, Wei Yen, Wei Jinsong el at., Polyethylene microplastics transported to nucleus pulposus cells via macrophages-derived exosomes, and promote intervertebral disc degeneration throughB β ¦, Ecotoxicology and Environmental Safety, (2025)

PMID:41175705

Note: This product is for in vitro research use only and is not intended for use in humans or animals.