10320 Camino Santa Fe, Suite G
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CANX / Calnexin Antibody (N-Terminus)
Goat Polyclonal Antibody
Catalog # ALS13382

Specification

CANX / Calnexin Antibody (N-Terminus) - Product Information

Application	**WB, IHC**
Primary Accession	P27824
Reactivity	**Human, Mouse, Rabbit, Monkey, Pig, Chicken, Horse, Bovine, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**68kDa KDa**

CANX / Calnexin Antibody (N-Terminus) - Additional Information

Gene ID 821

Other Names
Calnexin, IP90, Major histocompatibility complex class I antigen-binding protein p88, p90, CANX

Target/Specificity
Human CANX / Calnexin. Reported variants represent identical protein (NP_001019820.1, NP_001737.1).

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
CANX / Calnexin Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

CANX / Calnexin Antibody (N-Terminus) - Protein Information

Name CANX

Function
Calcium-binding protein that interacts with newly synthesized monoglucosylated 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. Associated with partial T-cell antigen receptor complexes that escape the ER of immature thymocytes, it may function as a signaling complex regulating thymocyte maturation. Additionally it may play a role in receptor-mediated endocytosis at the synapse.

Cellular Location
Endoplasmic reticulum membrane; Single-pass type I membrane protein. Mitochondrion membrane {ECO:0000250|UniProtKB:P24643}; Single-pass type I membrane protein. Melanosome

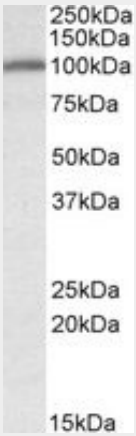
membrane; Single-pass type I membrane protein. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:12643545, PubMed:17081065). The palmitoylated form preferentially localizes to the perinuclear rough ER (PubMed:22314232) Localizes to endoplasmic reticulum mitochondria-associated membrane (MAMs) that connect the endoplasmic reticulum and the mitochondria (By similarity). {ECO:0000250|UniProtKB:P24643, ECO:0000269|PubMed:12643545, ECO:0000269|PubMed:17081065, ECO:0000269|PubMed:22314232}

CANX / Calnexin Antibody (N-Terminus) - Protocols

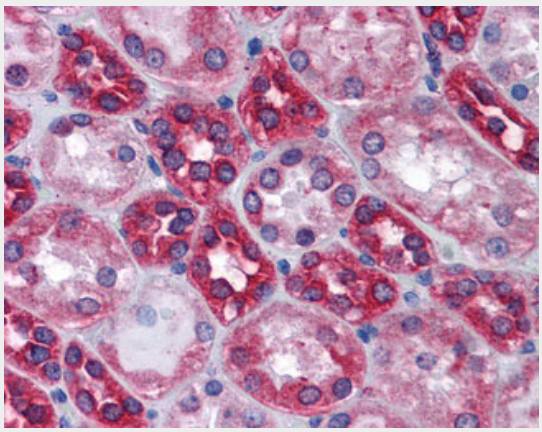
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CANX / Calnexin Antibody (N-Terminus) - Images



CANX antibody (0.3 ug/ml) staining of Mouse Heart lysate (35 ug protein in RIPA buffer).



Anti-Calnexin antibody IHC of human kidney.

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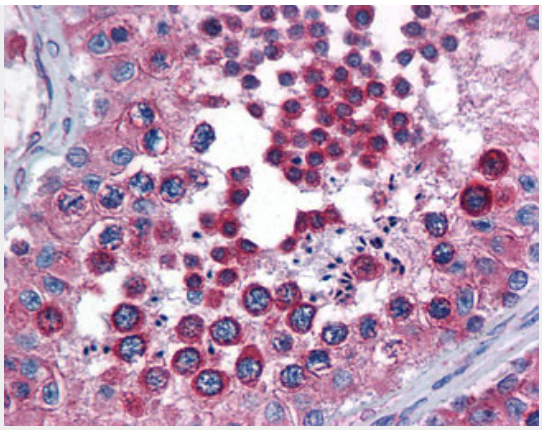
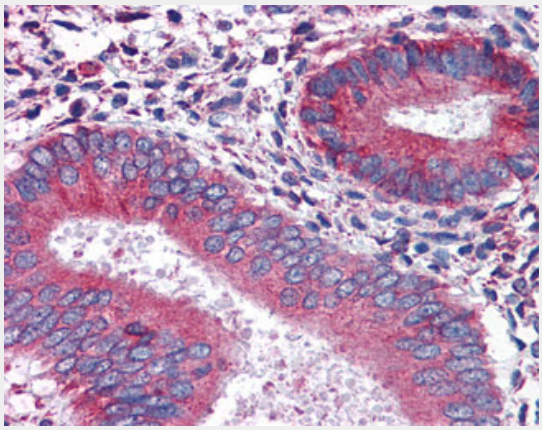


Anti-Calnexin antibody IHC of human testis.



Anti-Calnexin antibody IHC of human uterus.

CANX / Calnexin Antibody (N-Terminus) - Background

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. Associated with partial T-cell antigen receptor complexes that escape the ER of immature thymocytes, it may function as a signaling complex regulating thymocyte maturation. Additionally it may play a role in receptor- mediated endocytosis at the synapse.

CANX / Calnexin Antibody (N-Terminus) - References

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Tjoelker L.W.,et al.Biochemistry 33:3229-3236(1994).
Honore B.,et al.Electrophoresis 15:482-490(1994).
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Ota T.,et al.Nat. Genet. 36:40-45(2004).