

**CANX / Calnexin Antibody (C-Terminus)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS17187****Specification**

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**CANX / Calnexin Antibody (C-Terminus) - Product Information**

Application	IHC-P, IF, WB
Primary Accession	<a href="#">P27824</a>
Other Accession	<a href="#">821</a>
Reactivity	Human, Mouse, Rat, Monkey, Dog
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Calculated MW	67568

**CANX / Calnexin Antibody (C-Terminus) - Additional Information****Gene ID** 821**Other Names**

CANX, CNX, Calnexin, IP90, p90

**Target/Specificity**

Detects a band of 90 kDa by Western blot in the following human (293A, primary fibroblasts, HaCat, HeLa, HMEC-1, Jurkat, MNT1, U-118), rat (TR-iBRB), mouse (3T3, AtT-20, Hepa, Raw264.7), monkey (COS-7) and canine (D17) whole cell lysates.

**Reconstitution & Storage**

PBS, 20% glycerol, 0.05% sodium azide. Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

**Precautions**

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

**CANX / Calnexin Antibody (C-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}

### Volume

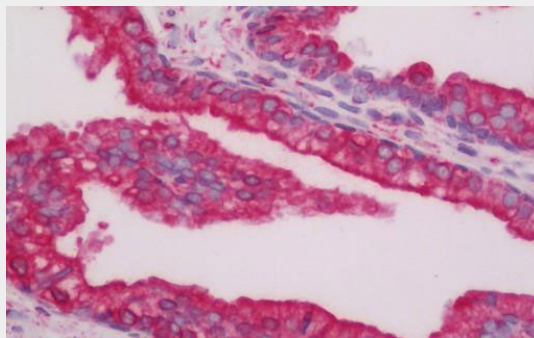
100  $\mu$ l

### CANX / Calnexin Antibody (C-Terminus) - Protocols

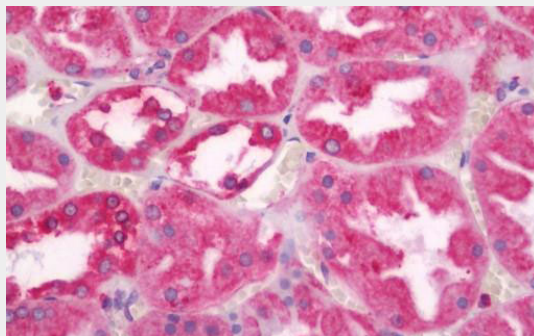
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

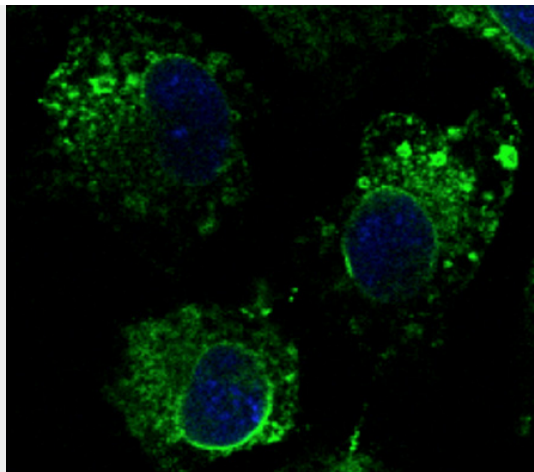
### CANX / Calnexin Antibody (C-Terminus) - Images



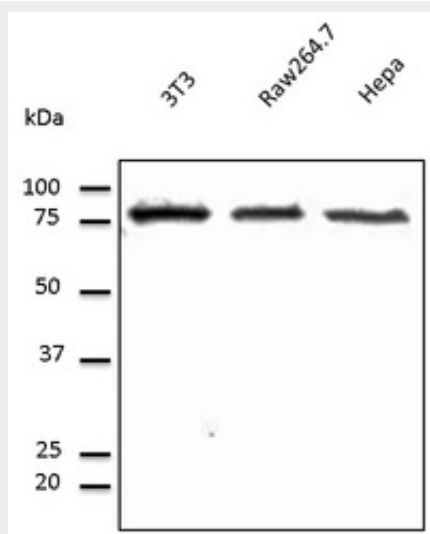
Human Prostate: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunofluorescence - anti-CANX antibody in Hepa1-6 cells at 1:100 dilution.



Western blot.

### **CANX / Calnexin Antibody (C-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 (C-Terminus) - References**

- David V., et al. *J. Biol. Chem.* 268:9585-9592(1993).
- Tjoelker L.W., et al. *Biochemistry* 33:3229-3236(1994).
- Honore B., et al. *Electrophoresis* 15:482-490(1994).
- Hansen J.J., et al. Submitted (FEB-2000) to the EMBL/GenBank/DDBJ databases.
- Ota T., et al. *Nat. Genet.* 36:40-45(2004).