

CANX / Calnexin Antibody (clone 1D4)
Mouse Monoclonal Antibody
Catalog # ALS14316

Specification

CANX / Calnexin Antibody (clone 1D4) - Product Information

Application	IHC
Primary Accession	P27824
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	68kDa KDa

CANX / Calnexin Antibody (clone 1D4) - Additional Information

Gene ID 821

Other Names

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

Target/Specificity

Human Calnexin

Reconstitution & Storage

Aliquot and store at -20°C or -80°C. Avoid freeze-thaw cycles.

Precautions

CANX / Calnexin Antibody (clone 1D4) is for research use only and not for use in diagnostic or therapeutic procedures.

CANX / Calnexin Antibody (clone 1D4) - 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

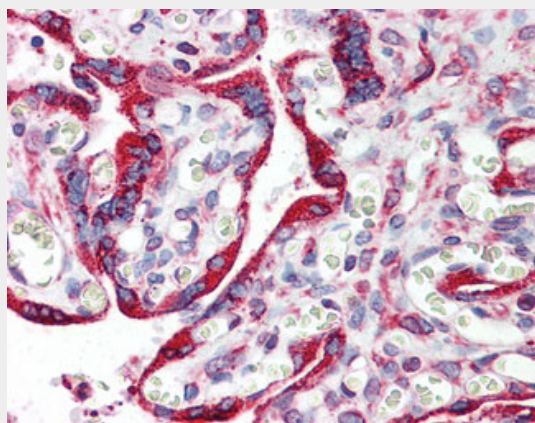
palmitoylated form preferentially localizes to the perinuclear rough ER (PubMed:22314232)
Localizes to endoplasmic reticulum mitochondria-associated membrane (MAMs) that connect the endoplasmic reticulum and the mitochondria (By similarity). {ECO:0000250|UniProtKB:P24643, ECO:0000269|PubMed:12643545, ECO:0000269|PubMed:17081065, ECO:0000269|PubMed:22314232}

CANX / Calnexin Antibody (clone 1D4) - 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 (clone 1D4) - Images



Anti-Calnexin antibody IHC of human placenta.

CANX / Calnexin Antibody (clone 1D4) - Background

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CANX / Calnexin Antibody (clone 1D4) - 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).

