

CANX Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP50720

Specification

CANX Antibody - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW Antigen Region WB <u>P27824</u> Human, Mouse, Rat Rabbit Polyclonal 68 KDa 532-592

CANX Antibody - Additional Information

Gene ID 821

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

Dilution WB~~ 1:1000

Storage Store at -20 °C.Stable for 12 months from date of receipt

CANX Antibody - 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,



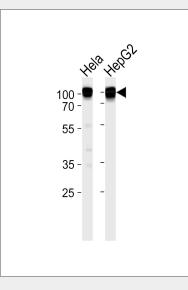
ECO:0000269|PubMed:12643545, ECO:0000269|PubMed:17081065, ECO:0000269|PubMed:22314232}

CANX Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

CANX Antibody - Images



Western blot analysis of lysates from Hela,HepG2 cell line (from left to right),using CANX Antibody was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.

CANX Antibody - Background

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CANX Antibody - 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).