

**KD-Validated Anti-Calnexin Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1235****Specification****KD-Validated Anti-Calnexin Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P27824</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 68 kDa , observed, 90 kDa KDa
Gene Name	CANX
Aliases	CANX; Calnexin; IP90; P90; Major Histocompatibility Complex Class I Antigen-Binding Protein P88; CNX; Epididymis Secretory Sperm Binding Protein
Immunogen	A synthesized peptide derived from human Calnexin

**KD-Validated Anti-Calnexin Rabbit Monoclonal Antibody - Additional Information**

Gene ID	821
<b>Other Names</b>	
Calnexin, IP90, Major histocompatibility complex class I antigen-binding protein p88, p90, CANX	

**KD-Validated Anti-Calnexin Rabbit Monoclonal 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,

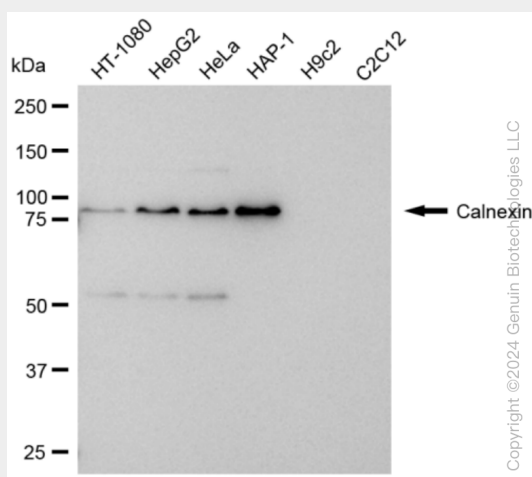
ECO:0000269|PubMed:12643545, ECO:0000269|PubMed:17081065,  
ECO:0000269|PubMed:22314232}

## KD-Validated Anti-Calnexin Rabbit Monoclonal Antibody - Protocols

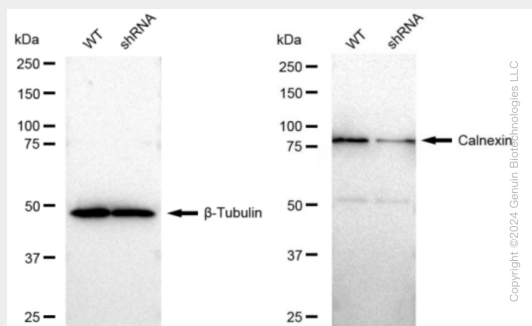
Provided below are standard protocols that you may find useful for product applications.

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

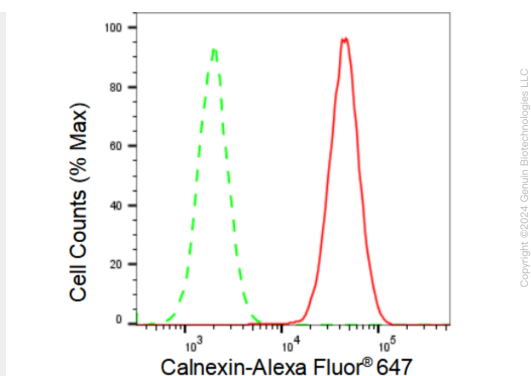
## KD-Validated Anti-Calnexin Rabbit Monoclonal Antibody - Images



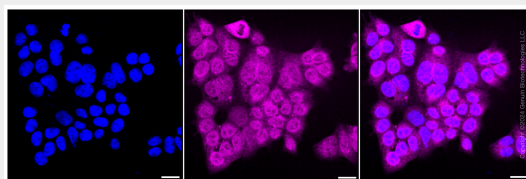
Western blotting analysis using anti-Calnexin antibody (Cat#AGI1235). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Calnexin antibody (Cat#AGI1235, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Calnexin antibody (Cat#AGI1235). Calnexin expression in wild type (WT) and calnexin shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Calnexin antibody (Cat#AGI1235, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Calnexin expression in HAP-1 cells using Calnexin antibody (Cat#AGI1235, 1:2,000). Green, isotype control; red, Calnexin.



Immunocytochemical staining of HAP-1 cells with Calnexin antibody (Cat#AGI1235, 1:1,000). Nuclei were stained blue with DAPI; Calnexin was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.