

**Product Name:** KD-Validated Calnexin Recombinant Rabbit Monoclonal Antibody  
**Catalog #:** KVA01528

For research use only.

## Summary

|                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| <b>Description</b>  | KO&KD-Validated antibody                                                    |
| <b>Host</b>         | Rabbit                                                                      |
| <b>Application</b>  | WB,FCM,ICC                                                                  |
| <b>Reactivity</b>   | Human                                                                       |
| <b>Conjugation</b>  | Unconjugated                                                                |
| <b>Modification</b> | Unmodified                                                                  |
| <b>Isotype</b>      | Rabbit IgG                                                                  |
| <b>Clonality</b>    | Rabbit mAb                                                                  |
| <b>Form</b>         | Liquid                                                                      |
| <b>Storage</b>      | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| <b>Shipping</b>     | Ice bags                                                                    |
| <b>Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.   |
| <b>Purification</b> | Affinity purification                                                       |

## Application

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000 |
| <b>Molecular Weight</b> | Calculated MW: 67.6kDa                                  |

## Antigen Information

|                          |                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | CANX                                                                                                                                             |
| <b>Alternative Names</b> | CANX; Calnexin; IP90; P90; Major Histocompatibility Complex Class I Antigen-Binding Protein P88; CNX; Epididymis Secretory Sperm Binding Protein |
| <b>Gene ID</b>           | 821.0                                                                                                                                            |
| <b>SwissProt ID</b>      | P27824                                                                                                                                           |
| <b>Immunogen</b>         | A synthesized peptide derived from human Calnexin                                                                                                |

## Background

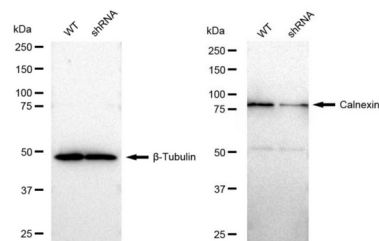
This gene encodes a member of the calnexin family of molecular chaperones. The encoded protein is a calcium-binding, endoplasmic reticulum (ER)-associated protein that interacts transiently with newly synthesized N-linked glycoproteins, facilitating protein folding and assembly. It may also play a central role in the quality control of protein folding by retaining

incorrectly folded protein subunits within the ER for degradation. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jun 2018]

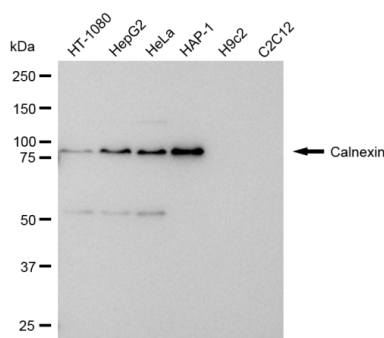
## Research Area

Tags & Cell Markers, Neuroscience

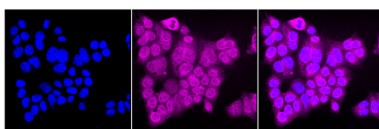
## Image Data



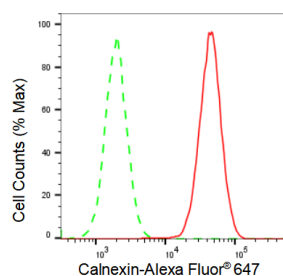
Western blotting analysis using Calnexin antibody (KVA01528). Calnexin expression in wild type (WT) and calnexin shRNA knockdown (KD) HeLa cells with 30  $\mu$ g of total cell lysates.  $\beta$ -Tubulin serves as a loading control. The blot was incubated with Calnexin antibody (KVA01528, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Calnexin antibody (KVA01528). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Calnexin antibody (KVA01528, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with Calnexin antibody (KVA01528, 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  $\mu$ m.



Flow cytometric analysis of Calnexin expression in HAP-1 cells using Calnexin antibody (KVA01528, 1:2,000). Green, isotype control; red, Calnexin.