Calnexin Polyclonal antibody

**Catalog Number:** 10427-2-AP  **Featured Product**  **298 Publications**

### Basic Information

- **Catalog Number:** 10427-2-AP
- **Size:** 150μl, Concentration: 550μg/ml by Nanodrop
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG0697
- **GenBank Accession Number:** BC003552
- **GeneID (NCBI):** 821
- **Full Name:** calnexin
- **Calculated MW:** 90 kDa
- **Observed MW:** 90 kDa
- **Purification Method:** Antigen affinity purification

### Applications

- **Tested Applications:** FC, IF, IHC, WB, ELISA
- **Cited Applications:** CoIP, ELISA, IF, IHC, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, goat, rat, mouse, monkey, Hamster, pig

*Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0*

### Background Information

Calnexin is a molecular chaperone that resides in the endoplasmic reticulum (ER) and participates in the folding and assembly of newly synthesized proteins. Calnexin is highly abundant in ER and is frequently used as an ER marker.

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
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<tbody>
<tr>
<td>Xuedan Li</td>
<td>32999434</td>
<td>Sci Rep</td>
<td>WB</td>
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<td>Chih-Hang Anthony Tang</td>
<td>32999453</td>
<td>Cell Mol Immunol</td>
<td>WB</td>
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<tr>
<td>Meghan E Spears</td>
<td>36170811</td>
<td>Cell Rep</td>
<td>WB, IF</td>
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### Storage

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

*** 20ul sizes contain 0.1% BSA

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For technical support and original validation data for this product please contact:
- T: 1 (888) 4PTGLAB (1-888-478-4522) [toll free in USA], or 1(312) 455-8498 (outside USA)
- E: proteintech@ptglab.com
- W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Various lysates were subjected to SDS PAGE followed by western blot with 10427-2-AP (Calnexin antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using Calnexin antibody (10427-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). The cytoskeleton was stained with CL594-Phalloidin (red).

1X10^6 HeLa cells were intracellularly stained with 0.2 ug Anti-Human Calnexin (10427-2-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

WB result of Calnexin antibody (10427-2-AP; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Calnexin transfected HEK-293 cells.

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10427-2-AP (Calnexin antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).

Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10427-2-AP (Calnexin antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).