10320 Camino Santa Fe, Suite G
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# Anti-Calnexin (N-terminal region) Antibody
**Catalog # AN1667**

## Specification

### Anti-Calnexin (N-terminal region) Antibody - Product Information

| | |
|---|---|
| Application | **WB** |
| Primary Accession | P27824 |
| Reactivity | **Bovine** |
| Host | **Mouse** |
| Clonality | **Mouse Monoclonal** |
| Isotype | **IgG1** |
| Calculated MW | **67568** |

### Anti-Calnexin (N-terminal region) Antibody - Additional Information

| | |
|---|---|
| Gene ID | **821** |

**Other Names**
IP90, P90

**Target/Specificity**
Calnexin is a 90 kDa integral membrane protein located primarily in the endoplasmic reticulum (ER). The structure of calnexin includes a long N-terminal calcium-binding domain that extends into the lumen of the ER and a short, acidic cytosolic domain. Calnexin associates with several cell surface proteins as they pass through the ER, and may be involved in the Ca2+-dependent retention of proteins in the ER. The amino acid sequence of calnexin is highly conserved among various species and is similar in sequence to calreticulin, another Ca2+-binding protein found in the ER. Phosphorylation may regulate the activity of the C-terminal region of Calnexin. Both proline-dependent kinase and casein kinase sites have been identified, and the phosphorylation of these sites may regulate calnexin functions involved with detection of ER protein quality control and transport.

**Format**
Protein A Purified

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
Anti-Calnexin (N-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Shipping**
Blue Ice

### Anti-Calnexin (N-terminal region) Antibody - Protocols

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

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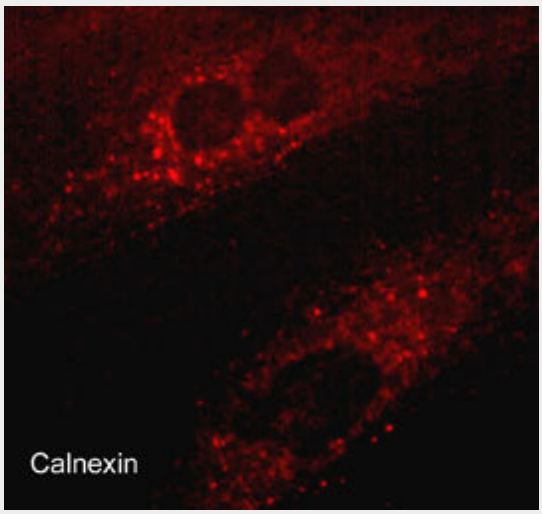
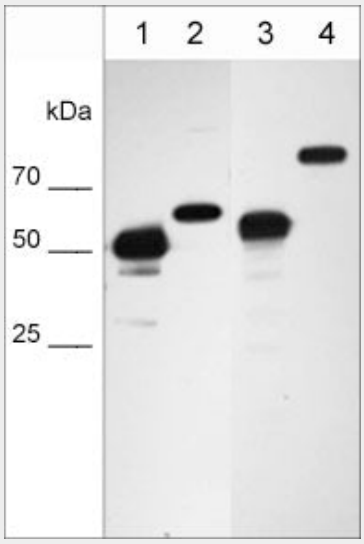
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**Anti-Calnexin (N-terminal region) Antibody - Images**




Immunocytochemical labeling in paraformaldehyde fixed and NP-40 permeabilized rat A7r5 cells. The cells were labeled with mouse monoclonal Anti-Calnexin (CM4371), then the antibody was detected using Goat anti-Mouse secondary antibody conjugated to DyLight® 594.




Western blot image of cell structure markers in NCI-H1915 lung carcinoma cells. The blot was probed with anti-Vimentin intermediate filament protein VM4341 (lane 1), anti-Nucleoporin p62 NM4361 (lane 2), anti-Hsp60 mitochondrial protein HM4381 (lane 3), and anti-Calnexin endoplasmic reticulum protein CM4371 (lane 4).

**Anti-Calnexin (N-terminal region) Antibody - Background**

Calnexin is a 90 kDa integral membrane protein located primarily in the endoplasmic reticulum

(ER). The structure of calnexin includes a long N-terminal calcium-binding domain that extends into the lumen of the ER and a short, acidic cytosolic domain. Calnexin associates with several cell surface proteins as they pass through the ER, and may be involved in the Ca2+-dependent retention of proteins in the ER. The amino acid sequence of calnexin is highly conserved among various species and is similar in sequence to calreticulin, another Ca2+-binding protein found in the ER. Phosphorylation may regulate the activity of the C-terminal region of Calnexin. Both proline-dependent kinase and casein kinase sites have been identified, and the phosphorylation of these sites may regulate calnexin functions involved with detection of ER protein quality control and transport.