

# Anti-Calnexin (N-terminal region) Antibody

Catalog # AN1667

Specification

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

Application	WB
Primary Accession	<u>P27824</u>
Reactivity	Bovine
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	lgG1
Calculated MW	67568

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

Gene ID Other Names IP90, P90 821

### **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.

Dilution WB~~1:1000

**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.

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

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

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