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orders@antibodiesinc.com
530-758-4400

PRODUCT DATASHEET

Anti-Calnexin (N-terminal region) Antibody

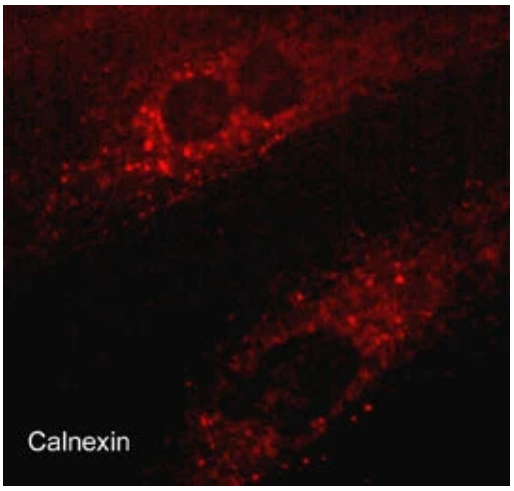
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Product Details

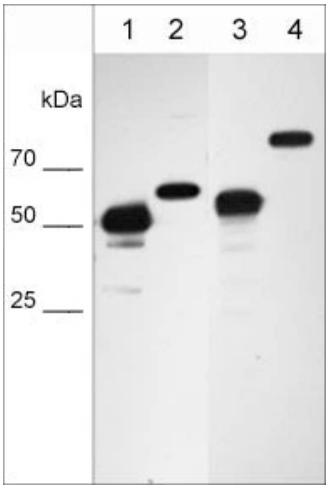
Available Variants	100 µL (SKU:CM4371)
Conjugate	Unconjugated
Isotype	IgG1
Clone	M437
Gene Name	CANX
Host Species	Mouse
Format	Protein A Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, WB
Dilution Ranges	WB: 1:1000 ICC: 1:50
Species Reactivity	Human, Mouse, Rat
Immunogen	Clone M437 was generated from a recombinant protein corresponding to amino acid residues in the N-terminal region of human calnexin. This sequence has high homology to similar regions in rat and mouse Calnexin.
Specificity	This antibody detects a 90 kDa* protein corresponding to the apparent molecular mass of Calnexin on SDS-PAGE immunoblots of human HeLa and rat A7r5 cells. In immunocytochemistry, anti-Calnexin specifically stains endoplasmic reticulum and related vesicular structures in paraformaldehyde fixed and NP-40 permeabilized cells.
Molecular Weight	90
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	P27824 UniProt Summary: 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.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	821

Product 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).