

Mouse Calnexin Monoclonal Antibody | anti-CANX antibody

Calnexin (N-terminal region) Antibody

CATALOG # AAA71598	HOST Mouse	REACTIVITY Human, Rat, Mouse	APPLICATIONS Immunocytochemistry, ELISA, Western Blot
------------------------------	----------------------	--	---

PRODUCT SYNONYMS

Calnexin; Monoclonal Antibody; Calnexin (N-terminal region) Antibody; Calnexin (N-terminal region); anti-CANX antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rat, Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M437
Specificity	This antibody detects a 90kDa* 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.
Purity/Purification	Protein A chromatography
Form/Format	Mouse monoclonal purified with protein A chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-CANX antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
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.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



WB (Western Blot)

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 p62nM4361 (lane 2), anti-Hsp60 mitochondrial protein HM4381 (lane 3), and anti-Calnexin endoplasmic reticulum protein CM4371 (lane 4).



ICC (Immunocytochemistry)

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.

ADDITIONAL INFORMATION

Related Product Information for anti-CANX antibody	Calnexin is a 90kDa 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 Ca ²⁺ -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 Ca ²⁺ -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.
References	Chevet, E. et al. (2010) Semin Cell Dev Biol. 21(5):486. Bergeron, J.J. et al. (1994) Trends Biochem Sci. 19(3):124. Wada, I. et al. (1991) J Biol Chem. 266(29):19599.

NCBI AND UNIPROT INFORMATION

NCBI GI #	66933005
NCBI GeneID	821
NCBI Accession #	NP_001019820.1
NCBI GenBank Nucleotide #	NM_001024649.1
UniProt Accession #	P27824 ; B2R5V8 ; D3DWQ3
Molecular Weight	67,568 Da
NCBI Official Full Name	calnexin
NCBI Official Synonym Full Names	calnexin
NCBI Official Symbol	CANX
NCBI Official Synonym Symbols	CNX; P90; IP90
NCBI Protein Information	calnexin; major histocompatibility complex class I antigen-binding protein p88
UniProt Protein Name	Calnexin
UniProt Gene Name	CANX
UniProt Entry Name	CALX_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/calnexin-antibody-clone-m437-immunocytochemistry-western-blot-elisa/71598>