

Mouse Calnexin Monoclonal Antibody | anti-CANX antibody

Calnexin (Endoplasmic Reticulum Marker)

CATALOG # AAA214564	HOST Mouse	REACTIVITY Human. Others not known.	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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PRODUCT SYNONYMS

Calnexin; Monoclonal Antibody; Calnexin (Endoplasmic Reticulum Marker); CANX; CNX; IP90; Major histocompatibility complex class I antigen-binding protein p88; P90; anti-CANX antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	CANX/1543
Specificity	It recognizes a protein of 90kDa, which is identified as Calnexin. Secretory and transmembrane proteins are synthesized on polysomes and translocate into the endoplasmic reticulum (ER) where they are often modified by the formation of disulfide bonds, amino-linked glycosylation and folding. To help proteins fold properly, the ER contains a pool of molecular chaperones including calnexin. It is a calcium-binding, endoplasmic reticulum (ER)-associated protein that interacts transiently with newly synthesized N-linked glycoproteins, facilitating protein folding and assembly. It may also play a central role in the quality control of protein folding by retaining incorrectly folded protein subunits within the ER for degradation.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	592
Applicable Applications for anti-CANX antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant N-terminal fragment of human Calnexin protein (around aa 1-300)
Cellular Localization	Cytoplasmic
Hu-chromosome Location	5q35.3
Positive Control	HeLa, MCF-7 or U2OS cells. Kidney or small intestine.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

Analysis of Protein Array containing more than 19, 000 full-length human proteins using Calnexin Mouse Monoclonal Antibody (CANX/1543). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



WB (Western Blot)

Western Blot of Analysis of Human Kidney Lysate using Calnexin Mouse Monoclonal Antibody (CANX/1543).



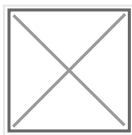
SDS-PAGE

SDS-PAGE Analysis Purified Calnexin Mouse Monoclonal Antibody (CANX/1543). Confirmation of Integrity and Purity of Antibody.



WB (Western Blot)

Western Blot of Analysis of PANC1 and MCF-7 Cell Lysate using Calnexin Mouse Monoclonal Antibody (CANX/1543).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with Calnexin Mouse Monoclonal Antibody (CANX/1543).

ADDITIONAL INFORMATION

References	Williams, D.B. 1995. Calnexin: a molecular chaperone with a taste for carbohydrate. Biochem. Cell Biol. 73: 123-132.
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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; B4DGP8; B4E2T8; D3DWQ3; D6R9K3
Molecular Weight	90kDa
NCBI Official Full Name	calnexin isoform d
NCBI Official Synonym Full Names	calnexin
NCBI Official Symbol	CANX
NCBI Official Synonym Symbols	CNX; P90; IP90
NCBI Protein Information	calnexin
UniProt Protein Name	Calnexin

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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/calnexin-antibody-clone-canx-1543-immunohistochemistry-western-blot-elisa/214564>