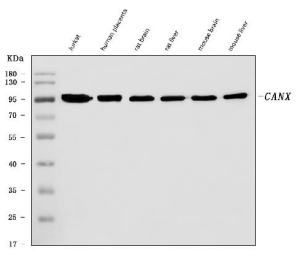
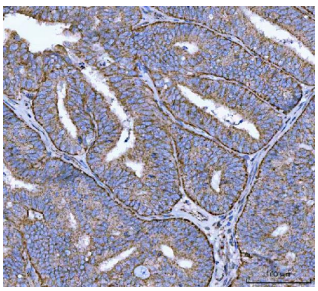
Product Data Sheet:
Calnexin/CANX Mouse Monoclonal Antibody

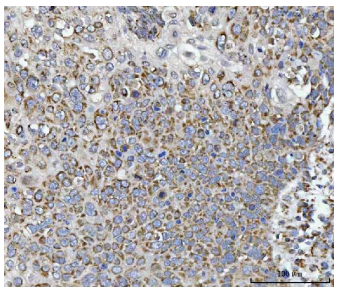
Cat. No:	MAB-94756
Conjugate:	Unconjugated
Size:	200 ug
Clone:	8D10B3
Concentration:	Adding 0.2 ml of distilled water will yield a concentration of 1mg/ml.
Host:	Mouse
Isotype:	IgG2b
Immunogen:	E.coli-derived human Calnexin/CANX recombinant protein.
Reactivity:	Human, Mouse, Rat
Applications:	Western blot: 1:1000 Immunohistochemistry(Paraffin-embedded Section): 1:100 Immunocytochemistry: 1:100 Immunofluorescence: 1:100 Flow Cytometry, 1-3 ug/1×106 cells, Human
Molecular Weight:	95 kDa
Purification:	Immunogen affinity purified.
Background:	Calnexin (CNX) is a 67 kDa integral protein of the endoplasmic reticulum. This gene encodes a member of the calnexin family of molecular chaperones. The encoded protein 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. Alternatively spliced transcript variants encoding different isoforms have been described.
Form:	Lyophilized
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.



Western blot analysis of Calnexin/CANX using anti- Calnexin/CANX antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The



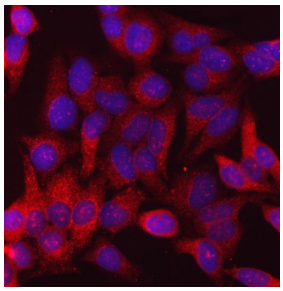
HC analysis of Calnexin/CANX using anti-Calnexin/CANX antibody. Calnexin/CANX was detected in a paraffin-embedded section of human endometrial adenocarcinoma tissue. Heat mediated antigen retrieval was



IHC analysis of Calnexin/CANX using anti- Calnexin/CANX antibody. Calnexin/CANX was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen

sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Jurkat whole cell lysates,

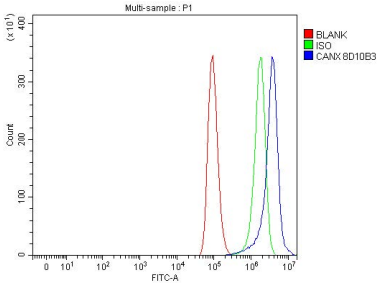
Lane Lane 2: human placenta tissue lysates,
Lane 3: rat brain tissue lysates,
Lane 4: rat liver tissue lysates,
Lane 5: mouse brain tissue lysates,
Lane 6: mouse liver tissue lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes.
Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-
Calnexin/CANX antigen affinity purified monoclonal antibody at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Calnexin/CANX at approximately 95 kDa. The expected band size for Calnexin/CANX is at 67 kDa.



IF analysis of Calnexin/CANX using anti-Calnexin/CANX antibody.
Calnexin/CANX was detected in an immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 1:100 mouse anti- Calnexin/CANX Antibody overnight at 4°C. Cy3 Conjugated Goat Anti-Mouse IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:100 mouse anti-Calnexin/CANX Antibody overnight at 4°C.

Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was
developed using HRP Conjugated Mouse IgG Super VisionAssay Kit with DAB as the chromogen.



Flow Cytometry analysis of A549 cells using anti-Calnexin/CANX antibody.
Overlay histogram showing A549 cells stained with (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-Calnexin/CANX Antibody 1 ug/1×106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG
(5-10 ug/1×106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 ug/1×106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

retrieval was performed in EDTA buffer (pH 8.0, epitoperetrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:100 mouse anti-Calnexin/CANX Antibody.
overnight at 4°C. Peroxidase Conjugated Goat Anti-mouseIgG was used as secondary antibody and incubated for 30minutes at 37°C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.