

Human Calnexin antibody

Catalog Number: ATGA0483

PRODUCT INFORMATION

Catalog number

ATGA0483

Clone No.

AT18B9

Product type

Monoclonal Antibody

UnitProt No.

P27824

NCBI Accession No.

NP_001019820

Alternative Names

CNX, IP90, P90, CANX, FLJ26570, Histocompatibility complex class I antigen binding protein p88

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human Calnexin (21-481aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

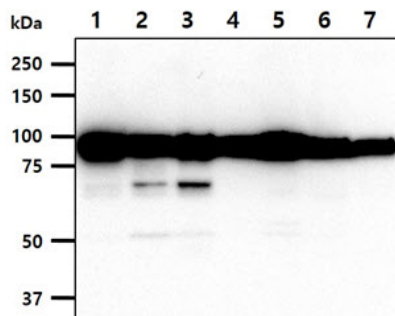
Calnexin, also known as IP90, p88 and p90, is a member of the calnexin family of molecular chaperones. This protein is a calcium-binding, endoplasmic reticulum (ER) -associated protein that interacts transiently with newly synthesized N-linked glycoproteins, facilitating protein folding and assembly. 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.

General References

Wang B., et al. (2009) Immunology. 128(1): 43-57.
Millar DJ., et al. (2009) Proteomics. 9(9): 2355-72.

DATA

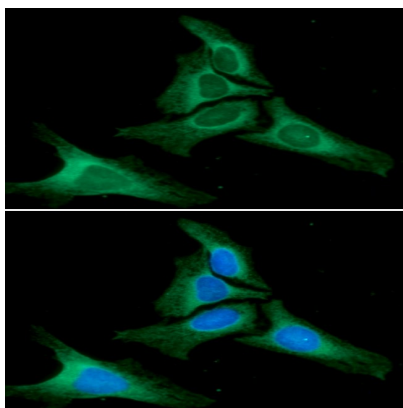
Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Calnexin antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HeLa cell lysate
Lane 2.: MCF7 cell lysate
Lane 3.: A431 cell lysate
Lane 4.: A549 cell lysate
Lane 5.: 293T cell lysate
Lane 6.: HepG2 cell lysate
Lane 7.: Jurkat cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

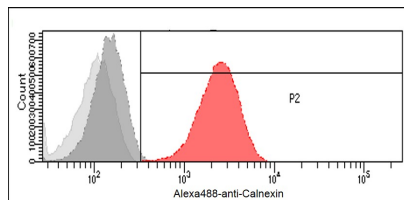
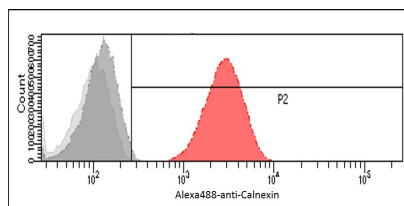


ICC/IF analysis of Calnexin in HeLa cells. The cell was stained with ATGA0483 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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Flow cytometry analysis of Calnexin in HeLa cells. The cell was stained with ATGA0483 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

Flow cytometry analysis of Calnexin in A549 cells. The cell was stained with ATGA0483 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).