

# Human Calnexin antibody

Catalog Number: ATGA0483

## PRODUCT INFORMATION

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**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

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**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.

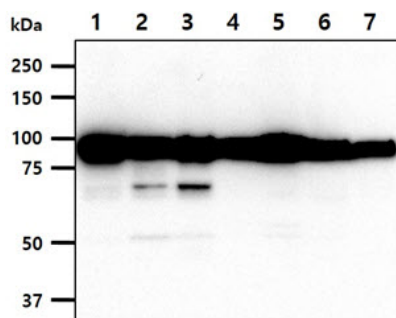
### General References

Wang B., et al. (2009) Immunology. 128(1): 43-57.

Millar DJ., et al. (2009) Proteomics. 9(9): 2355-72.

## DATA

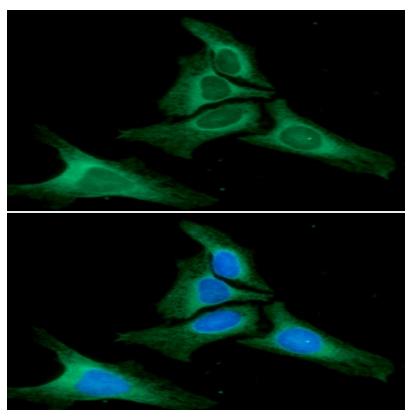
### Western blot analysis (WB)



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

### Immunofluorescence (ICC/IF)

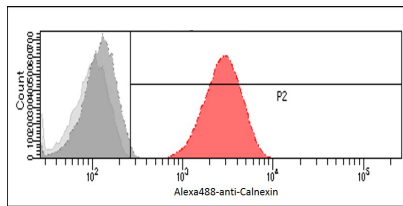


ICC/IF analysis of Calnexin in HeLa cells. The cell was stained with ATGA0483 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

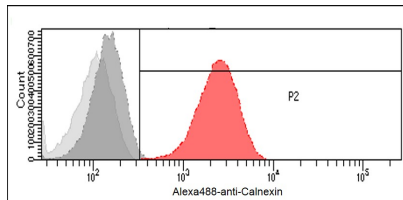
### Flow cytometry (FACS)

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Flow cytometry analysis of Calnexin in HeLa cells. The cell was stained with ATGA0483 at 2-5ug for  $1 \times 10^6$  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  $1 \times 10^6$  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).