

Human PDCD4 antibody

Catalog Number: ATGA0601

PRODUCT INFORMATION

Catalog number

ATGA0601

Clone No.

4C2

Product type

Monoclonal antibody

UnitProt No.

Q53EL6

NCBI Accession No.

NP_055271

Alternative Names

Programmed cell death 4 isoform 1, neoplastic transformation inhibitor, H731, MGC33046, MGC33047, Programmed cell death 4 isoform 1, PDPC4, Programmed cell death 4 isoform 1, PDCD4, programmed cell death 4 (neoplastic transformation inhibitor), nuclear antigen H731

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 PDCD4 (1-469aa) 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

Programmed cell death 4 (PDCD4) encodes a tumor suppressor protein whose expression is lost in progressed carcinomas of lung, breast, colon, and prostate. The expression of PDCD4 gene is strongly induced during apoptosis in a number of cell types. It is modulated by cytokines in natural killer and T cells.

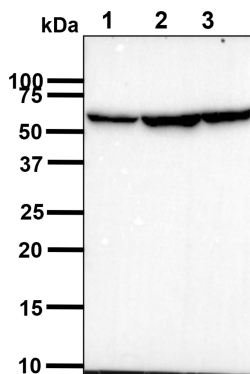
General References

Palamarchuk A, et al., (2006) *Cancer Res* 65(24):11282-11286.

Yoshina, et al., (1999) *Pathol Int* 49(12):1067-1077.

DATA

Western blot analysis (WB)



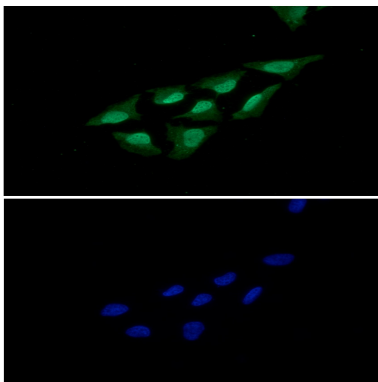
The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PDCD4 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: K562 cell lysate

Lane 2.: HeLa cell lysate

Lane 3.: 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of PDCD4 in HeLa cells. The cell was stained with ATGA0601 (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 PDCD4 in MCF7 cells. The cell was stained with ATGA0601 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).

