

Human Cytokeratin 17/KRT17 antibody

Catalog Number: ATGA0340

PRODUCT INFORMATION

Catalog number

ATGA0340

Clone No.

AT9F3

Product type

Monoclonal Antibody

UnitProt No.

Q04695

NCBI Accession No.

NP_000413

Alternative Names

Keratin type I cytoskeletal 17, K17, PC, PC2, PCHC1

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 KRT17(1-432aa) purified from E. coli

Isotype

IgG2a 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

Keratins (cytokeratins) are intermediate filament proteins that are mainly expressed in epithelial cells. Keratin heterodimers composed of an acidic keratin (or type I keratin, keratins 9 to 23) and a basic keratin (or type II keratin, keratins 1 to 8) assemble to form filaments. Keratin 17 is involved in wound healing and cell growth, two processes that require rapid cytoskeletal remodeling. Keratinocytes deficient in keratin 17 exhibit abnormal Akt/mTOR signaling and fail to produce an increase in translation, cell size, or growth; these cells also exhibit abnormal 14-3-3 sigma localization.

General References

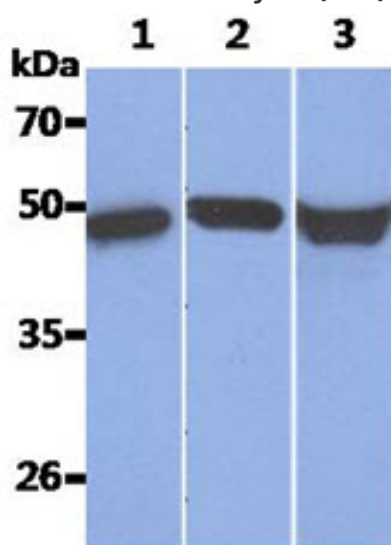
Kim S., et al. (2006) Nature. 441(7091): 362-365.

Troyanovsky S.M., et al. (1992) Eur J Cell Biol. 59(1): 127-137.

McGowan K.M. and Coulombe P.A. (1998) J Cell Biol. 143(2): 469-486.

DATA

Western blot analysis (WB)



The Recombinant protein (50ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KRT17 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant Human KRT17

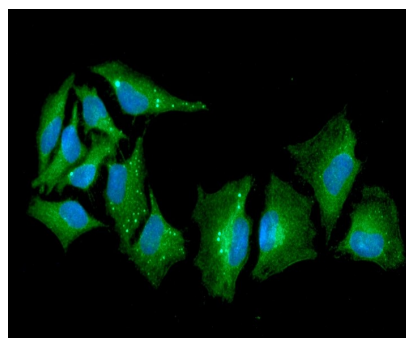
Lane 2.: HeLa cell lysate

Lane 3.: A431 cell lysate

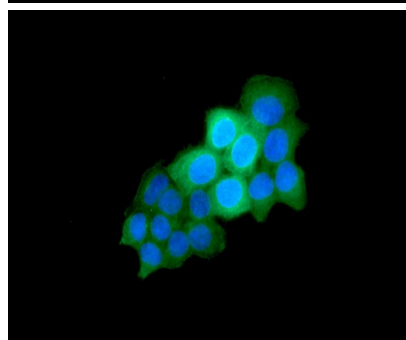
Immunocytochemistry/Immunofluorescence (ICC/IF)

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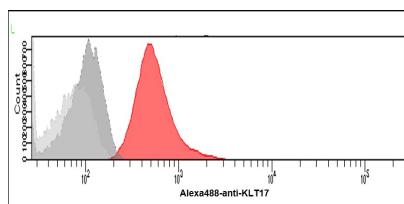


ICC/IF analysis of KRT17 in HeLa cells. The cell was stained with ATGA0340 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



ICC/IF analysis of KRT17 in A431 cells. The cell was stained with ATGA0340 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of KRT17 in A431 cells. The cell was stained with ATGA0340 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).