Human Keratin 14/KRT14 antibody

Catalog Number: ATGA0338

PRODUCT INFORMATION

Catalog number
ATGA0338

Clone No.
AT13F4

Product type
Monoclonal Antibody

UnitProt No.
P02533

NCBI Accession No.
AAH19097

Alternative Names
Keratin 14, cytokeratin 14, GIG36, MGLAP, NTI

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 KRT14 (1-472aa) purified from E. coli.

Isotype
IgG2a kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA, WB, ICC/IF, IHC, FACS

Usage
The antibody has been tested by ELISA, Western blot, ICC/IF, FACS and IHC 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

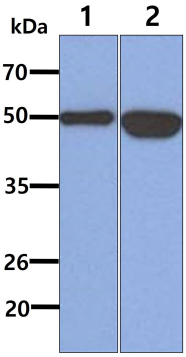
Keratin 14 (KRT14) is a member of the type I keratin family of intermediate filament proteins. KRT14 gene provides instructions for making a protein called keratin 14. Keratins are a group of tough, fibrous proteins that form the structural framework of certain cells, particularly cells that make up the skin, hair, and nails. Keratin 14 is specifically produced in cells called keratinocytes in the outer layer of the skin.

General References

Pfendner E.G., et al. (2005) J Invest Dermatol. 125(2): 239-243.
Arin M.J., et al (2010) Br J Dermatol. 162(6): 1365-1369.
Muller F.B., et al (2006) Hum Mutat. 27(7): 719-720.

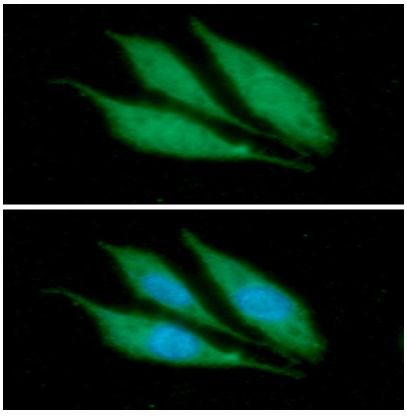
DATA

Western blot analysis (WB)



The recombinant protein (50ng) and cell lysate (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KRT14 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 KRT14
Lane 2.: A431 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of KRT14 in PC3 cells. The cell was stained with ATGA0338 (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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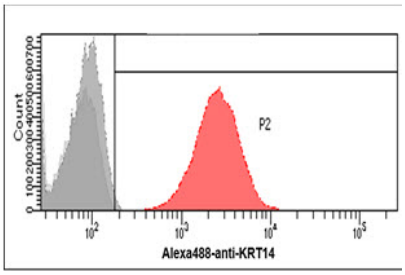
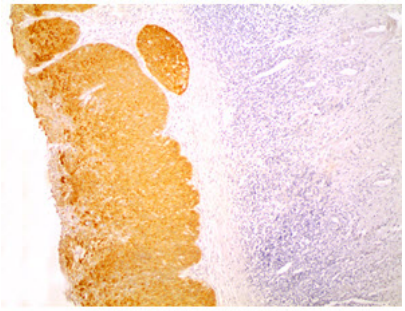


Flow cytometry analysis of KRT14 in A431 cells. The cell was stained with ATGA0338 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

Immunohistochemistry (IHC)



Human cervical cancer tissue

Paraffin embedded sections of human cervical cancer tissue were incubated with anti-human KRT14 (1:200) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB).