

Human Cytokeratin 19 antibody

Catalog Number: ATGA0255

PRODUCT INFORMATION

Catalog number

ATGA0255

Clone No.

AT13D10

Product type

Monoclonal Antibody

UnitProt No.

P08727

NCBI Accession No.

NP_002267

Alternative Names

Keratin type I cytoskeletal 19, Keratin, type I cytoskeletal 19, CK19, K19, K1CS

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 KRT19 (1-400aa) purified from E. coli

Isotype

IgG2b 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

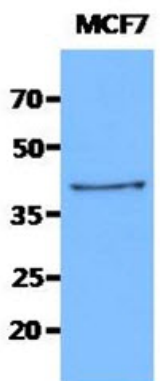
KRT19 (type 1 cytokeratin 19) is 44kDa intermediate filament (IF) protein that is part of the Keratin family of proteins. Cytokeratins play a critical role in differentiation and tissue specialization and function to maintain the overall structural integrity of epithelial cells and have been found to be useful markers of tissue differentiation. KRT19 is an important biomarker for breast cancer cells, tumor cells of the lymph nodes, peripheral blood, and bone marrow. Cytokeratin 19 can be expressed with KRT8 and KRT18 to differentiate cells of epithelial lines from hematopoietic tumor cells in the peripheral blood.

General References

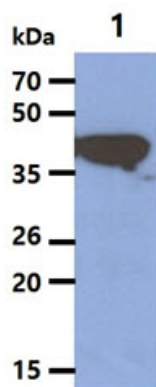
- Stone, M.R., et al. (2005) Mol Biol Cell 16: 4280-4293.
- Lacroix, M. (2006) Endocrine Related Cancer 13(4): 1033-1067.
- Allard W.J., et al. (2004) Clin Cancer Research 10(20): 6897-6904.

DATA

Western blot analysis (WB)



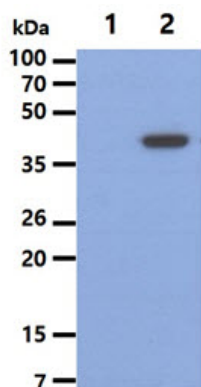
The cell lysate of MCF7 (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KRT19 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



The cell lysate (20ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KRT19 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: HepG2 cell lysate

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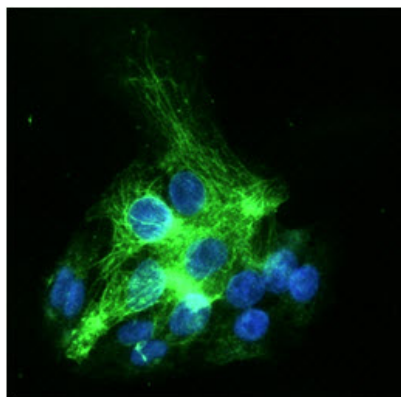


The cell lysates (5ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KRT19 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate

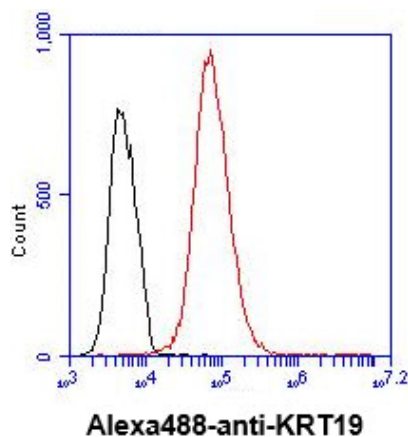
Lane 2.: KRT19 Transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of KRT19 in HepG2 cells. The cell was stained with ATGA0255 (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 KRT19 in HepG2 cell line, staining at 2-5ug for 1x10⁶ cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).