

Human Cytokeratin 20/KRT20 antibody

Catalog Number: ATGA0337

PRODUCT INFORMATION

Catalog number

ATGA0337

Clone No.

AT10D8

Product type

Monoclonal Antibody

UnitProt No.

P35900

NCBI Accession No.

NP_061883

Alternative Names

CD20, CK20, K20, Keratin type I cytoskeletal 20, KRT20, KRT21

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 KRT20 (1-424aa) purified from E.coli

Isotype

IgG2a kappa

Purification Note

By protein-A affinity chromatography

Application

ELISA, WB, ICC/IF

Usage

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

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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 20 is a type I cytokeratin. It is a major cellular protein of mature enterocytes and goblet cells and is specifically found in the gastric and intestinal mucosa. In immunohistochemistry, antibodies to KRT20 can be used to identify a range of adenocarcinoma arising from epithelia that normally contain the KRT20 protein. For example, the protein is commonly found in colorectal cancer, transitional cell carcinomas and in Merkel cell carcinoma, but is absent in lung cancer, prostate cancer, and non-mucinous ovarian cancer. It is often used in combination with antibodies to CK7 to distinguish different types of glandular tumor.

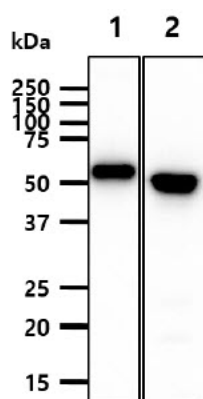
General References

Moll R., et al. (1990) J Cell Biol. 111(2): 567-580.

Piero D., et al. (2011) Nat Biotechnol. 29(12): 1120-1127.

DATA

Western blot analysis (WB)

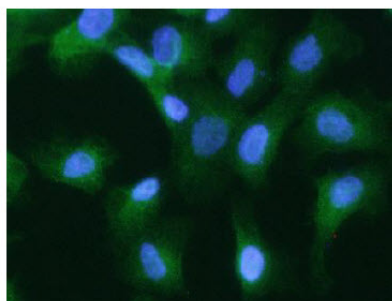


The Recombinant protein (25ng) and Cell lysates of HeLa, A431(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KRT20 antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Recombinant Human KRT20

Lane 2.: A431 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of KRT20 in A549 cells. The cell was stained with ATGA0337 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).