

Human Cytokeratin 18 antibody

Catalog Number: ATGA0193

PRODUCT INFORMATION

Catalog number

ATGA0193

Clone No.

AT2G3

Product type

Monoclonal Antibody

UnitProt No.

P05783

NCBI Accession No.

NP_000215

Alternative Names

Cell proliferation inducing gene 46 protein, Cell proliferation inducing protein 46, CK 18, CYK18, Cytokeratin 18, Cytokeratin endo B, K18, Keratin 18, Keratin D, Keratin type I cytoskeletal 18, Kerd

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 KRT18 (79-430aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA,WB,ICC/IF,IHC

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF 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

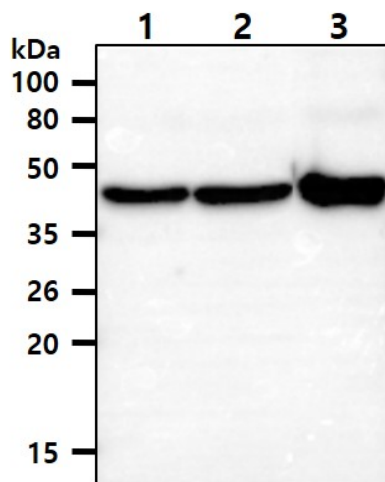
Keratins (cytokeratins) are intermediate filament proteins that are mainly expressed in epithelial cells. Keratin heterodimers composed of an acidic keratin (or type I keratin, keratins 9 to 23) and a basic keratin (or type II keratin, keratins 1 to 8) assemble to form filaments. Keratin isoforms demonstrate tissue- and differentiation-specific profiles that make them useful as biomarkers. Mutations in keratin genes are associated with skin disorders, liver and pancreatic diseases, and inflammatory intestinal diseases.

General References

- Moll, R, et al., (1988) Am. J. Pathol., 132: 123-44.
- Schlimok, G, et al., (1988) Arzneimittel-Forschung, 38: 435-7.
- Debus, E, et al., (1984) Am. J. Pathol., 114: 121-30.

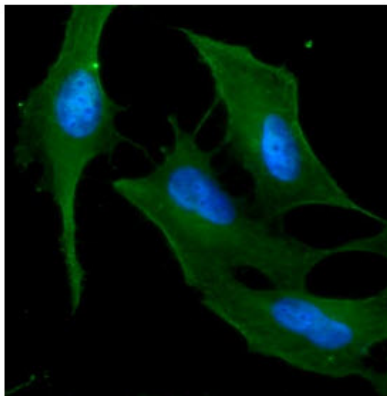
DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Cytokeratin 18 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: HeLa cell lysate
Lane 2.: A549 cell lysate
Lane 3.: MCF7 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

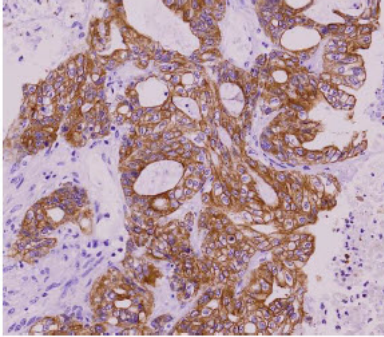


ICC/IF analysis of Cytokeratin 18 in HeLa cells. The cell was stained with ATGA0193 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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Immunohistochemistry (IHC)



Paraffin embedded sections of colorectal cancer tissue were incubated with anti-human Cytokeratin 18 antibody (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB).