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

lgG2b 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).

