Human KRT23 antibody

Catalog Number: ATGA0225

PRODUCT INFORMATION

Catalog number
ATGA0225

Clone No.
AT2F6

Product type
Monoclonal Antibody

UnitProt No.
Q9C075

NCBI Accession No.
NP_056330

Alternative Names
CK-23, CK23, Cytokeratin-23, DKFZP434G032, HAIK1, Cytokeratin 23, MGC26158, K23, K1C23, HAIK 1, Histone deacetylase inducible keratin 23, type I cytoskeletal 23

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 KRT23 (271-422aa) purified from E. coli

Isotype
IgG1 kappa

Purification Note
By protein-G 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

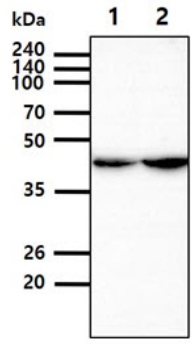
KRT23, also known as cytokeratin 23, is a 422 amino acid intermediate filament protein. The human KRT23 gene is located on chromosome 17q21. 2. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. The cytokeratin proteins play a critical role in differentiation, as well as tissue specialization and function, and maintenance of epithelial cells structure. Cytokeratins are described to be differentiation markers in several epithelial cancers.

General References

Birkenkamp-Demtroder K., et al.(2007) Mol Oncol 1(2): 181-195.
Zhang J.S., et al. (2001) Genes Chromosomes Cancer 30: 123-135.
Schweizer J., et al. (2006) Cell Biol 174: 169-174.
Rogers M.A., et al. (2004) Differentiation 72: 527-540.

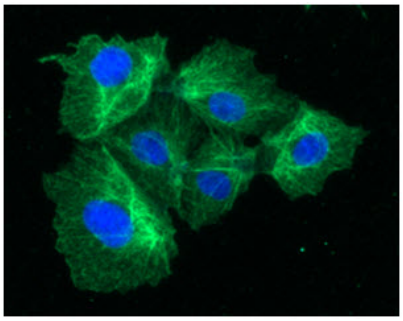
DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KRT23 antibody (1:3000). 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.: HepG2 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of KRT23 in Hep3B cells. The cell was stained with ATGA0225 (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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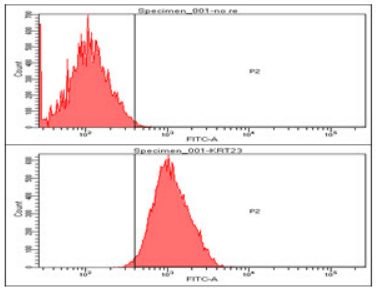

Flow cytometry analysis of KRT23 in Hep3B cell line, staining at 2-5ug for 1x10^6cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.