

Human KLF4 antibody

Catalog Number: ATGA0129

PRODUCT INFORMATION

Catalog number

ATGA0129

Clone No.

AT4E6

Product type

Monoclonal Antibody

UnitProt No.

O43474

NCBI Accession No.

NP_004226.3

Alternative Names

krueppel-like factor 4, EZF, GKLF

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 KLF4 (1-170aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, FACS

Usage

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

Storage

Human KLF4 antibody

Catalog Number: ATGA0129

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

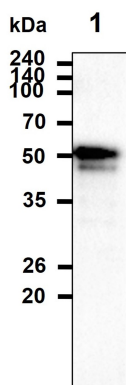
KLF4, which is also known as the gut-enriched kruppel-like factor (GkLF), is a zinc finger-containing transcription factor that belongs to the kruppel-like family of transcription factors. KLF4 plays important roles during the proliferation and differentiation of epithelial cells. Especially, it is found predominantly in gut and has been shown to be expressed during growth arrest. KLF4 is also involved in cell cycle control since expression of KLF4 inhibits DNA synthesis by blocking the G1/S phase of the cell cycle.

General References

Yan FF, et al., (2008) Med Hypotheses. 70(4):845-7.
Cho YG, et al., (2007) APMIS. 115(7):802-8.

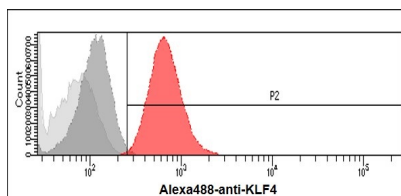
DATA

Western blot analysis (WB)

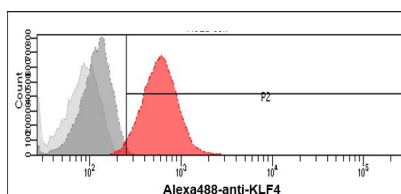


The recombinant protein (20ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KLF4 antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant human KLF4 protein

Flow cytometry (FACS)



Flow cytometry analysis of KLF4 in A549 cells. The cell was stained with ATGA0129 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).



Flow cytometry analysis of KLF4 in HeLa cells. The cell was stained with ATGA0129 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).