

Human Chitinase 3-like 2/CHI3L2 antibody

Catalog Number: ATGA0472

PRODUCT INFORMATION

Catalog number

ATGA0472

Clone No.

AT2B5

Product type

Monoclonal Antibody

UnitProt No.

Q15782

NCBI Accession No.

NP_003991

Alternative Names

CHI3L2, CHIL2, YKL-39, YKL39

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 CHI3L2 (27-390aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-A 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

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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

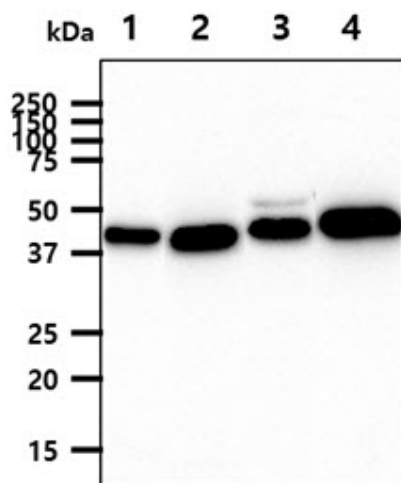
CHI3L2, also known as chitinase-3-like protein 2, belongs to chitinase protein family. It is secreted by synovial fibroblasts, chondrocytes, and TGFb/IL4 stimulated monocyte derived macrophages. It has been proposed as a potential biomarker for osteoarthritis.

General References

Hu B., et al. (1996) J. Biol. Chem. 271: 19415-19420.
Gratchev A., et al. (2008) Biomarker Insights. 3: 39-44.

DATA

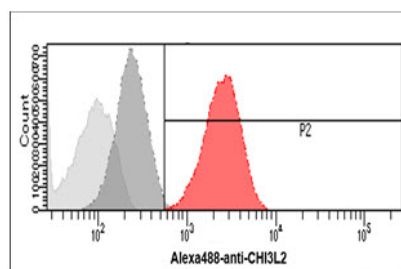
Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CHI3L2 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: 293T cell lysate
Lane 2.: HeLa cell lysate
Lane 3.: HepG2 cell lysate
Lane 4.: LnCap cell lysate

Flow cytometry (FACS)



Flow cytometry analysis of CHI3L2 in HeLa cells. The cell was stained with ATGA0472 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).