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# **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**



# **Human Chitinase 3-like 2/CHI3L2 antibody**

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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**

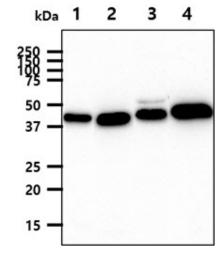
CHI3L2, also known as chitinase-3-like protein 2, belongs to chitinase protein family. It is secreted by synovial fibroblasts, chondrocytes, and TGFb/IL4 stimulated monocyte derived macrophages. It has been proposed as a potential biomarker for osteoarthritis.

#### **General References**

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

## **DATA**

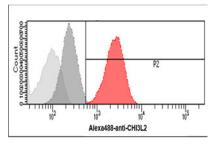
# Western blot analysis (WB)



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  $1\times10^6$  (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).

