

CHI3L1 / YKL-40 Antibody

Rabbit Polyclonal Antibody Catalog # ALS17175

Specification

CHI3L1 / YKL-40 Antibody - Product Information

Application IHC-P, WB
Primary Accession P36222
Other Accession 1116

Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Isotype IgG
Calculated MW 42625

CHI3L1 / YKL-40 Antibody - Additional Information

Gene ID 1116

Other Names

CHI3L1, 39 kDa synovial protein, ASRT7, Cartilage glycoprotein 39, CGP-39, Chitinase-3-like protein 1, gp39, HCGP-39, HCGP-3P, GP-39, HC-gp39, YKL40, YYL-40, YKL-40

Target/Specificity

Human CHI3L1 / YKL-40

Reconstitution & Storage

PBS, pH 7.3, 0.02% sodium azide, 50% glycerol. Long term: -80°C; Short term: -20°C. Avoid freeze-thaw cycles.

Precautions

CHI3L1 / YKL-40 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CHI3L1 / YKL-40 Antibody - Protein Information

Name CHI3L1

Function

Carbohydrate-binding lectin with a preference for chitin. Has no chitinase activity. May play a role in tissue remodeling and in the capacity of cells to respond to and cope with changes in their environment. Plays a role in T-helper cell type 2 (Th2) inflammatory response and IL-13-induced inflammation, regulating allergen sensitization, inflammatory cell apoptosis, dendritic cell accumulation and M2 macrophage differentiation. Facilitates invasion of pathogenic enteric bacteria into colonic mucosa and lymphoid organs. Mediates activation of AKT1 signaling pathway and subsequent IL8 production in colonic epithelial cells. Regulates antibacterial responses in lung by contributing to macrophage bacterial killing, controlling bacterial dissemination and augmenting host tolerance. Also regulates hyperoxia- induced injury, inflammation and epithelial



apoptosis in lung.

Cellular Location

Secreted, extracellular space. Cytoplasm. Cytoplasm, perinuclear region. Endoplasmic reticulum

Tissue Location

Present in activated macrophages, articular chondrocytes, synovial cells as well as in liver. Very low or undetectable expression in non-inflammatory colon. Undetectable in muscle tissues, lung, pancreas, mononuclear cells, or fibroblasts

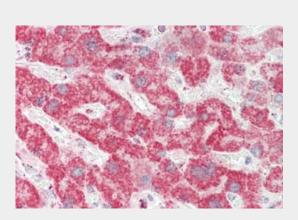
Volume 50 µl

CHI3L1 / YKL-40 Antibody - Protocols

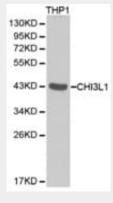
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

CHI3L1 / YKL-40 Antibody - Images



Human Liver: Formalin-Fixed, Paraffin-Embedded (FFPE)





Western blot analysis of extracts of THP1 cells, using CHI3L1 antibody.

CHI3L1 / YKL-40 Antibody - Background

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Hakala B.E., et al.J. Biol. Chem. 268:25803-25810(1993). Rehli M., et al.Genomics 43:221-225(1997). Kalnine N., et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases. Ota T., et al.Nat. Genet. 36:40-45(2004). Mural R.J., et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.