

Anti-YKL-40 Antibody

Catalog # AP53837

Product Information

Application	WB, IF/IC
Primary Accession	P36222
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	42625

Additional Information

Gene ID	1116
Other Names	Chitinase-3-like protein 1; 39 kDa synovial protein; Cartilage glycoprotein 39; CGP-39; GP-39; hCGP-39; YKL-40
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human YKL-40. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

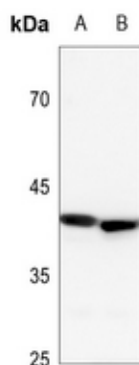
Protein Information

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

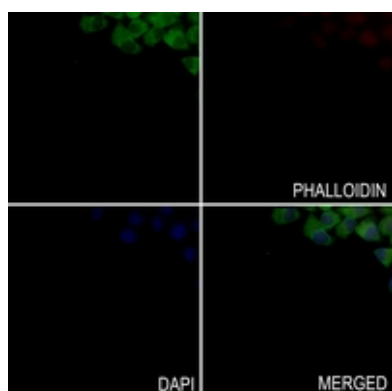
Tissue Location

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

Images



Western blot analysis of YKL-40 expression in mouse liver (A), rat liver (B) whole cell lysates. (Predicted band size: 42 kD; Observed band size: 42 kD)



Immunofluorescent analysis of YKL-40 staining in SGC7901 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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