

**CHI3L1 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12913c****Specification**

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**CHI3L1 Antibody (Center) Blocking peptide - Product Information**Primary Accession [P36222](#)**CHI3L1 Antibody (Center) Blocking peptide - 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, CHI3L1

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CHI3L1 Antibody (Center) Blocking peptide - 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

### **CHI3L1 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **CHI3L1 Antibody (Center) Blocking peptide - Images**

### **CHI3L1 Antibody (Center) Blocking peptide - Background**

Chitinases catalyze the hydrolysis of chitin, which is an abundant glycopolymer found in insect exoskeletons and fungal cell walls. The glycoside hydrolase 18 family of chitinases includes eight human family members. This gene encodes a glycoprotein member of the glycosyl hydrolase 18 family. The protein lacks chitinase activity and is secreted by activated macrophages, chondrocytes, neutrophils and synovial cells. The protein is thought to play a role in the process of inflammation and tissue remodeling.

### **CHI3L1 Antibody (Center) Blocking peptide - References**

Wu, A.C., et al. Am. J. Respir. Crit. Care Med. 182(7):884-889(2010) Lee, H., et al. Clin. Biochem. 43(15):1195-1200(2010) Park, J.A., et al. J. Biol. Chem. 285(39):29817-29825(2010) Zhang, W., et al. Cancer 116(11):2688-2697(2010) Bonneh-Barkay, D., et al. J Neuroinflammation 7, 34 (2010) :