Active Chitinase-3-like Protein 1 (CHI3L1)

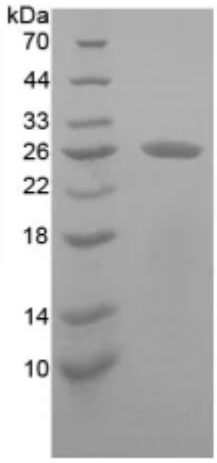
Catalog#:PEH12676

概述（Summary）

别称（Alternative Names）	GP39; CHI3-L1; YKL40; Chondrex; Chitinase 3-Like 1; Chondrocyte Protein YKL40; 39 kDa synovial protein
纯度（Purity）	Greater than 97% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Asn112-Thr237+Ile299-Lys377】
Accession #	P36222
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	26.9 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	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.

电泳图（SDS-PAGE image）



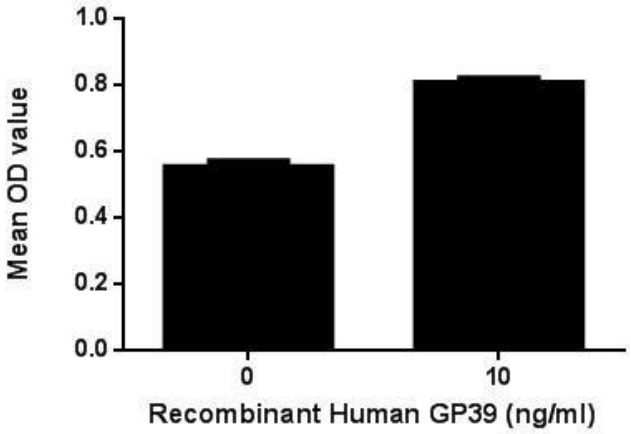
Greater than 97% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）



A B

Figure. Cell proliferation of Raji cells after stimulated with GP39. Figure. Cell proliferation of Raji cells after stimulated with GP39. Glycoprotein 39, Cartilage (GP39) also known as Chitinase-3-like protein 1 (CHI3L1) is a secreted glycoprotein that is approximately 40kDa in size that in humans is encoded by the CHI3L1 gene. GP39 plays a role in cancer cell proliferation, survival, invasiveness and in the regulation of cell-matrix interactions. To test the effect of GP39 on cell proliferation, Raji cells were seeded into triplicate wells of 96-well plates at a density of 5,000 cells/well with 1% serum standard 1640 which contains various concentrations of recombinant human GP39. After incubated for 5 days, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10μL of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37℃. Proliferation of Raji cells after incubation with GP39 for 5 days observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant GP39 for 5 days. The result was shown in Figure 2. It was obvious that GP39 significantly increased cell viability of Raji cells. (A) Raji cells cultured in 1640, stimulated with 10ng/mL GP39 for 5 days; (B) Unstimulated Raji cells cultured in 1640 for 5 days.



注意事项（Note）

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