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Product Datasheet

Rat CHI3L1 protein, His tag (active), Unconjugated GTX00364-PRO

Article Name	Rat CHI3L1 protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00364-PRO
Supplier Catalog Number	GTX00364-pro
Alternative Catalog Number	GTX00364-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Rat
Conjugation	Unconjugated
NCBI	89824
UniProt	Q9WTV1
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Tyr117~Lys364 (NP_001296749.1)

Application Notes

Glycoprotein 39, Cartilage (GP39) also known as Chitinase-3-like protein 1 (CHI3L1), YKL-40 is a secreted glycoprotein that is approximately 40kDa in size that in humans is encoded by the CHI3L1 gene. GP39 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. To test the effect of GP39 on cell proliferation, rat spleen cells were seeded into triplicate wells of 96-well plates at a density of 5000 cells/well with 2% serum standard RPMI-1640 including various concentrations of recombinant rat GP39. After incubated for 96h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μ l 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 37C. Proliferation of spleen cells after incubation with GP39 for 96h observed by inverted microscope.