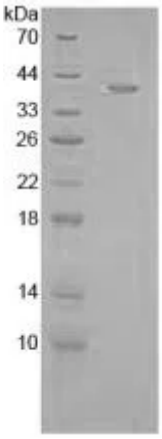
Active Chemokine (C-X-C Motif) Ligand 2 (CXCL2)

Catalog#:PER12705

概述（Summary）

别称（Alternative Names）	GROb; SCYB2; MIP2; GRO2; MIP2a; MGSAb; CINC2a; HSF; Macrophage inflammatory protein 2-alpha; Hematopoietic synergistic factor; Growth Regulated Oncogene Beta
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）	【Ser32-Asn100】
Accession #	P30348
表达宿主（Host）	E.coli
种属（Species）	Rattus norvegicus (Rat)
预测分子量（Predicted MW）	37.6 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 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Chemotactic for human polymorphonuclear leukocytes but does not induce chemokinesis or an oxidative burst. Contributes to neutrophil activation during inflammation.

电泳图（SDS-PAGE image）



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

活性图（Bioactivity image）

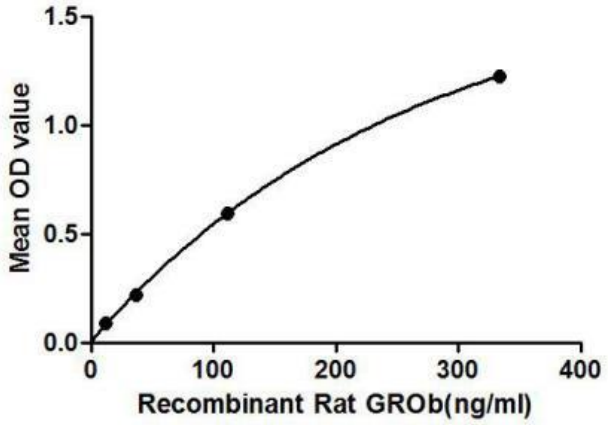


Figure 1. The binding activity of GROb with DPP4.

Growth Regulated Oncogene Beta (GROb) is a small cytokine belonging to the CXC chemokine family which produced by activated monocytes and neutrophils and expressed at sites of inflammation. Hematoregulatory chemokine, which, in vitro, suppresses hematopoietic progenitor cell proliferation. Besides, Dipeptidyl Peptidase IV (DPP4) has been identified as an interactor of GROb, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat GROb and recombinant rat DPP4. Briefly, GROb were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100ul were then transferred to DPP4-coated microtiter wells and incubated for 2h at 37℃. Wells were washed with PBST and incubated for 1h with anti-GROb pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50μL stop solution to the wells and read at 450nm immediately. The binding activity of of GROb and DPP4 was shown in Figure 1, and this effect was in a dose dependent manner.

注意事项（Note）

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