Active Interleukin 16 (IL16)

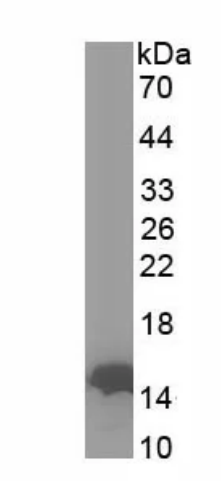
Catalog#:PEM12101

概述（Summary）

别称（Alternative Names）	LCF; PrIL-16; Lymphocyte Chemoattractant Factor; Pro-Interleukin 16
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Thr1203-Ser1322】
Accession #	O54824
表达宿主（Host）	E.coli
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	16.1 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 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）	Interleukin-16 stimulates a migratory response in CD4+ lymphocytes, monocytes, and eosinophils. Primes CD4+ T-cells for IL-2 and IL-15 responsiveness. Also induces T-lymphocyte expression of interleukin 2 receptor. Ligand for CD4.; Isoform 1 may act as a scaffolding protein that anchors ion channels in the membrane.; Isoform 2 is involved in cell cycle progression in T-cells. Appears to be involved in transcriptional regulation of SKP2 and is probably part of a transcriptional repression complex on the core promoter of the SKP2 gene. May act as a scaffold for GABPB1 (the DNA-binding subunit the GABP transcription factor complex) and HDAC3 thus maintaining transcriptional repression and

blocking cell cycle progression in resting T-cells.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

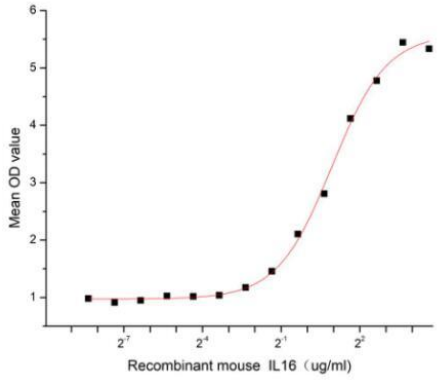


Figure 1. The binding activity of recombinant mouse IL-16 and recombinant dog IL1a

Interleukin 16 (IL-16), formerly known as lymphocyte chemoattractant factor or LCF, is a pro-inflammatory cytokine that is chemotactic for CD4 T lymphocytes, monocytes, and eosinophils. In addition to inducing chemotaxis, IL-16 can upregulate IL-2 receptor and HLA-DR4 expression, inhibit T cell receptor (TcR)/CD3-dependent activation, and promote repression of HIV-1 transcription.Besides,Interleukin 1 Alpha (IL1a) has been identified as an interactor of IL-16, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse IL-16 and recombinant dog IL1a. Briefly, IL-16 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to IL1a-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST and incubated for 1h with anti-IL-16 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37℃, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50 µL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant mouse IL-16 and recombinant dog IL1a was shown in Figure 1, the EC50 for this effect is 1.9 ug/mL.

注意事项（Note）

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