

Interleukin 16 (IL16) Active Protein | IL16 active protein

Active Interleukin 16 (IL16)

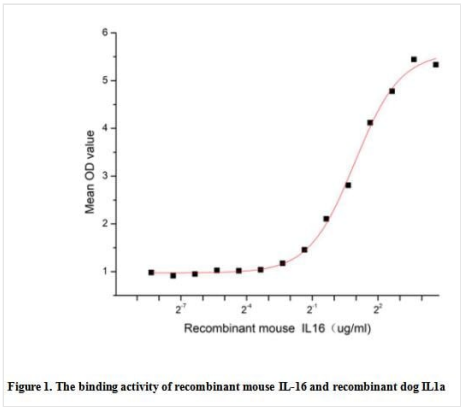
CATALOG # AAA161675	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
-------------------------------	-----------------------	---

PRODUCT SYNONYMS

Interleukin 16 (IL16); Active Interleukin 16 (IL16); Interleukin 16; LCF; PrIL-16; Lymphocyte Chemoattractant Factor; Pro-Interleukin 164; IL16 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Thr1203~Se r1322
Applicable Applications for IL16 active protein	Activity Assay, Cell Culture
Species	Mouse
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	6.4
Research Area	Cytokine, Infection immunity, Autoimmunity
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

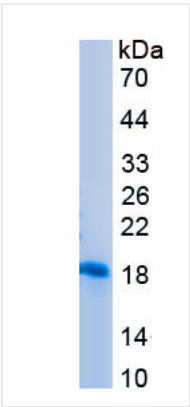


Bioactivity

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 μ l were then transferred to IL1a-coated microtiter wells and incubated for 1h at 37 degree C. 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 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 μ L 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 μ g/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for IL16 active protein	Active proteins
--	-----------------

NCBI AND UNIPROT INFORMATION

NCBI GI #	52138550
NCBI GeneID	16170
NCBI Accession #	NP_034681.2
NCBI GenBank Nucleotide #	NM_010551.3
UniProt Accession #	O54824; O70236; Q3TEM4; Q5DTR5; Q8R0G5; Q9QZP6
Molecular Weight	66,471 Da
NCBI Official Full Name	pro-interleukin-16
NCBI Official Synonym Full Names	interleukin 16
NCBI Official Symbol	IL16
NCBI Official Synonym Symbols	mKIAA4048
NCBI Protein Information	pro-interleukin-16
UniProt Protein Name	Pro-interleukin-16
UniProt Gene Name	IL16
UniProt Synonym Gene Names	IL-16; LCF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/interleukin-16-il16/161675>