Bioactive

CCL18 (Human) Recombinant Protein

Catalog # P3655 Size 10 ug

Specification

Product Description	Human CCL18 (P55774, 21 a.a. - 89 a.a.) partial recombinant protein expressed in *Escherichia coli* .
Sequence	AQVGTNKELCCLVYTSWQIPQKFIVDYSETSPQCPKPGVILLTKRGRQICADPNKKWVQKYISDLK LNA
Host	Escherichia coli
Theoretical MW (kDa)	8
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	Determined by the ability to chemoattract human T cells using a concentration range of 2.0-40.0 ng/m L.
Storage Buffer	Lyophilized from 20 mM PB, 100 mM NaCl, pH 7.5
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — CCL18

Entrez GeneID	6362
Protein Accession#	P55774
Gene Name	CCL18
Gene Alias	AMAC-1, AMAC1, CKb7, DC-CK1, DCCK1, MIP-4, PARC, SCYA18
Gene Description	chemokine (C-C motif) ligand 18 (pulmonary and activation-regulated)
Omim ID	603757
Gene Ontology	Hyperlink
Gene Summary	This gene is one of several Cys-Cys (CC) cytokine genes clustered on the q arm of chromosome 17. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory pr ocesses. The CC cytokines are proteins characterized by two adjacent cysteines. The cytokine e ncoded by this gene displays chemotactic activity for naive T cells, CD4+ and CD8+ T cells and n onactivated lymphocytes, but not for monocytes or granulocytes. This chemokine attracts naive T l ymphocytes toward dendritic cells and activated macrophages in lymph nodes. It may play a role i n both humoral and cell-mediated immunity responses. [provided by RefSeq
Other Designations	CC chemokine ligand 18|alternative macrophage activation-associated CC chemokine 1|chemok ine (C-C), dendritic|dendritic cell chemokine 1|macrophage inflammatory protein 4|pulmonary and activation-regulated chemokine|small inducible cytokine A18|small indu

Publication Reference

- CCL18 promotes the metastasis of squamous cell carcinoma of the head and neck through MTDH-NF-κB signalling pathway.

  Qin Y, Wang J, Zhu G, Li G, Tan H, Chen C, Pi L, She L, Chen X, Wei M, Li Z, Liu Z, Huang D, Liu Y, Zhang X.

  Journal of Cellular and Molecular Medicine 2019 Apr; 23(4):2689.

  Application: Func, Human, Tu686, 6-10B cells

- Tumor-associated macrophages derived CCL18 promotes metastasis in squamous cell carcinoma of the head and neck.

  She L, Qin Y, Wang J, Liu C, Zhu G, Li G, Wei M, Chen C, Liu G, Zhang D, Chen X, Wang Y, Qiu Y, Tian Y, Zhang X, Liu Y, Huang D.

  Cancer Cell International 2018 Aug; 18:120.

  Application: Func, Human, FaDu, Tu686 cells

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Pathway

- Chemokine signaling pathway
- Cytokine-cytokine receptor interaction

Disease

- Asthma
- Birth Weight
- Bronchiolitis
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Infant
- Leukemia
- Meningeal Neoplasms
- Meningioma
- Respiratory Syncytial Virus Infections

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