



Technical support: support@abbkine.com

Website: https://www.abbkine.com

Human CCL4 Protein (Animal-Free)

Cat #: PRP1926 Size: 5 μg/20 μg/100 μg/1 mg

Product Information

	Product Name: Human CCL4 Protein (Animal-Free)		
REF	Catalog Number: PRP1926	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
Å	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: CCL4 (C-C chemokine ligand 4), is a macrophage inflammatory protein with a chief effect in inflammation and immune-regulation, and was documented in cancer progression by promoting instability in the tumor environment. The inflammatory chemokine (C-C motif) ligand 4 (CCL4) plays an important role in the pathogenesis and progression of cancer. In particular, higher serum CCL4 levels in patients with oral squamous cell carcinoma (OSCC) are associated with a more advanced stage of disease. CCL4 may be a new molecular therapeutic target for inhibition of lymphangiogenesis and metastasis in OSCC. CCL3 and CCL4 loci may be marker SNPs for risk of HCV treatment outcome. CCL4 can enhance the recruitment of preosteoclasts to bone in the early stage, and the reduction of CCR5 promotes osteoclastogenesis when RANKL is prevalent.

Sequence: Amino acid sequence derived from Human CCL4 (Ala24-Asn92) (P13236) was expressed.

Protein length: The recombinant Human CCL4 consists of 69 amino acids and predicts a molecular mass of 7.75 kDa.

<u>Biological Activity</u>: Measured by its ability to chemoattract BaF3 cells transfected with human CCR5. The ED₅₀ for this effect is <10 ng/mL.

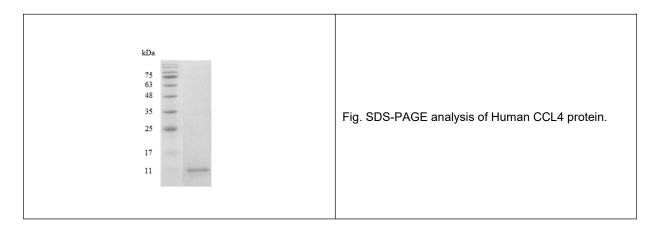
Endotoxin: <0.1 EU per 1 μ g of the protein by the LAL method.

Formulation: Lyophilized from 50 mM Tris, 150 mM NaCl, pH 8.5.

Storage Instructions: Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA, 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.



<u>Usage notes</u>: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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