

Datasheet for ABIN2666594
CCL1 Protein (AA 24-96)



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Overview

Quantity:	10 µg
Target:	CCL1
Protein Characteristics:	AA 24-96
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Flow Cytometry (FACS)

Product Details

Purity:	> 98 % , as determined by Coomassie stained SDS-PAGE.
Sterility:	0.22 µm filtered

Target Details

Target:	CCL1
Alternative Name:	CCL1 (CCL1 Products)
Background:	CCL1 was initially identified as a secreted protein derived from activated T cells. The CCL1/CCR8 axis is involved in the recruitment of Th2 effector cells in vivo to sites of allergic mucosal inflammation, as a result, there is an increase of CCR8+ CD4 T cell numbers in allergic asthma and a higher concentration of CCL1 in bronchoalveolar lavage of asthmatic patients compared with normal controls. In addition, high levels of CCL1 have been detected in the

Target Details

serum of patients with atopic dermatitis. CCL1 is constitutively expressed in normal skin, and CD8 and CD4 CCR8+ cells have been isolated from normal skin. Therefore, it has been suggested that CCL1/CCR8 play a role in skin immunosurveillance. In addition, a more recent publication showed that CCL1 transcript is upregulated in CD4 converted to Tregs by TGF- β in vitro, and this transcriptional upregulation is reversed by IL-6. This data suggests that CCL1 plays a role in Treg conversion. Also, antibodies against CCL1 inhibit the suppressive function of Tregs. Furthermore, the antitumor effect of CpG-ODN plus anti-CCL1 in BALB-neuT mice suggest that neutralization of CCL1 can be used as an adjuvant to antitumor immunotherapy.

Molecular Weight: The 74 amino acid recombinant protein has a predicted molecular mass of approximately 8.6 kDa. The DTT-reduced protein migrates at approximately 13 kDa, and the non-reduced protein migrates at approximately 15 kDa by SDS-PAGE. The N-terminal amino acid is

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: Biological activity: Bioactivity was measured by its property to chemoattract mouse BW.5147.G.1.40UAR.1 cells in a dose dependent manner.

Restrictions: For Research Use only

Handling

Format: Liquid

Reconstitution: For maximum results, quick spin vial prior to opening. The protein can be aliquoted and stored from -20 °C to -70 °C. Stock solutions can also be prepared at 50-100 μ g/mL in sterile buffer (PBS, HPBS, DPBS, or EBSS) containing carrier protein such as 0.2-1 % BSA or HSA and stored in working aliquots at -20 °C to -70 °C.

Buffer: 0.22 μ m filtered protein solution is in PBS.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -20 °C

Storage Comment: Unopened vial can be stored between 2°C and 8°C for one month, at -20°C for six months, or at -70°C for one year.