CCL2 (C-C motif chemokine ligand 2), Mouse

v. 231101

Catalog number	C02084-5UG / C02084-20UG / C02084-100UG
Package	5 µg / 20 µg / 100 µg
Description	CCL2, also known as MCP-1, is belonging to the CC ß chemokine family. CCL2 can be identified in endothelial cells, smooth muscle cells and monocytes as the results of reaction to several atherogenic stimulants, such as CD40 ligand, (IL-1β) and oxidized low density lipoprotein , interleukin-1βplatelet derived growth factor (PDGF). Recent study shows that in vivo MCP1 have several critical roles in atherosclerosis. Additionally, MCP-1 has been proved involving in monocytic infiltration of tissues during several inflammatory diseases, and has been implicated in macrophage-mediated tumor growth inhibition in mice. In addition, CCL2 has been shown to have direct effects on tumor cells in an autocrine and paracrine fashion in multiple cancers, including sarcoma, lung, cervix, ovary, breast, and prostate.
Source	*Escherichia coli*
Sequence	QPDAVNAPLTCCYSFTSKMIPMSRLESYKRITSSRCPKEAVVFVTKLKREVCAD PKKEWVQTYIKNLDRNQMRSEPTTLFKTASALRSSAPLNVKLTRKSEANASTTF STTTSSTSVGVTSVTVN with polyhistidine tag at the N-terminus
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Activity	Measure by its ability to chemoattract BaF3 cells transfected with CCR2A. The ED_{50} for this effect is <8 ng/mL.
Purity	>98% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at: • -20°C for 12 months in lyophilized state from date of receipt. • -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.

SDS-PAGE analysis of recombinant mouse CCL2