

Recombinant Mouse CCL2

Catalog#:P01818 Derived from Human Cells

DESCRIPTION	<p>Recombinant Mouse C-C Motif Chemokine 2 is produced by our Mammalian expression system and the target gene encoding Gln24-Asn148 is expressed with a 6His tag at the C-terminus.</p> <p>Accession#: P10148</p> <p>Known as: C-C motif chemokine 2; Monocyte chemoattractant protein 1; Monocyte chemotactic protein 1; MCP-1; Platelet-derived growth factor-inducible protein JE; Small-inducible cytokine A2; Ccl2; Je; Mcp1; Scya2</p>
FORMULATION	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
SHIPPING	<p>The product is shipped on dry ice/polar packs.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
STORAGE	<p>Store at ≤-70°C, stable for 6 months after receipt.</p> <p>Store at ≤-70°C, stable for 3 months under sterile conditions after opening.</p> <p>Please minimize freeze-thaw cycles.</p>
QUALITY CONTROL	<p>Mol Mass: 14.7kDa AP Mol Mass: 20-36kDa, reducing conditions.</p> <p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test.</p>
BACKGROUND	<p>C-C motif chemokine 2 (CCL2) is a member of the C-C or β chemokine family. Mouse CCL2 shares 82% amino acid (aa) identity with rat CCL2 over the entire sequence, and 58%, 56%, 55%, 53% and 53% aa identity with human, equine, porcine, bovine and canine CCL2, respectively. Fibroblasts, glioma cells, smooth muscle cells, endothelial cells, lymphocytes and mononuclear phagocytes can produce CCL2 either constitutively or upon mitogenic stimulation, but monocytes and macrophages appear to be the major source. In addition to its chemotactic activity, CCL2 induces enzyme and cytokine release by monocytes, NK cells and lymphocytes, and histamine release by basophils that express its receptor, CCR2. Additionally, it promotes Th2 polarization in CD4⁺ T cells. CCL2-mediated recruitment of monocytes to sites of inflammation is proposed to play a role in the pathology of atherosclerosis, multiple sclerosis and allergic asthma.</p>
<p>SDS-PAGE</p> 	