

## Product datasheet for **TP727664**

### Ccl2 Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse C-C motif chemokine 2/CCL2 (C-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Gln24-Asn148
Tag:	C-His
Buffer:	Supplied as a 0.2 um filtered solution of 20mM Tris, 500mM NaCl, 10% Glycerol, pH 7.4 .
Note:	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.
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Locus ID:	20296
UniProt ID:	<a href="#">P10148</a>
Synonyms:	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
Summary:	C-C motif chemokine 2 (CCL2) is a member of the C-C or $\beta^2$ 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.


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