

## OriGene Technologies Inc.

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## PA1158 OriGene EU

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## Recombinant Rat Monocyte Chemotactic Protein-1 (CCL2)

Alternate names:	CCL2, MCP1
Catalog No.:	PA1158
Quantity:	2 µg
<b>Concentration:</b>	1 mg/ml
Species:	Rat
Source:	E. coli, E.coli
Format:	<ul> <li>State: Sterile Filtered White lyophilized (freeze-dried) powder.</li> <li>Purity: &gt;95% Greater than 95.0% as determined by: <ul> <li>(a) Analysis by RP-HPLC.</li> <li>(b) Anion-exchange FPLC.</li> <li>(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained.</li> </ul> </li> <li>Buffer System: Recombinant MCP-1 was lyophilized from a concentrated sterile solution containing no additives.</li> <li>Endotoxin Level: Less than 0.1 ng/µg (IEU/µg) of Rat Monocyte Chemotactic Protein-1.</li> <li>Dimers: Less than 1% as determined by silver-stained SDS-PAGE gel analysis.</li> <li>Reconstitution: It is recommended to reconstitute the lyophilized Rat MCP-1 in sterile 18MO-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.</li> </ul>
<b>Description:</b>	<ul> <li>Recombinant Rat MCP-1 produced in E.Coli is a non-glycosylated, Polypeptide chain containing 125 amino acids. Rat Monocyte Chemotactic Protein-1 is purified by proprietary chromatographic techniques.</li> <li>AA Sequence: <ul> <li>The sequence of the first five N-terminal amino acids was determined and was found to be Gln-Pro-Asp-Ala-Val.</li> </ul> </li> <li>Biological Activity: MCP-1 is fully biologically active when compared to standard. The specific activity as determined by the ability of Rat MCP-1 to chemoattract human peripheral blood at 10-100ng/ml.</li> <li>Molecular weight: 14092 Dalton.</li> <li>Molecular weight: 14 kDa</li> </ul>
Add. Information:	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm . 2. Analysis by RP-HPLC, using a calibrated solution of Rat MCP-1 as a Reference Standard.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.



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Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com

	PA1158: Recombinant Rat Monocyte Chemotactic Protein-1 (CCL2)
Storage:	Recombinant Monocyte Chemotactic Protein-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18 C. Upon reconstitution Monocyte Chemotactic Protein-1 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 (0.1% HSA or BSA). Please avoid freeze-thaw cycles.
General Readings:	<ol> <li>Mitomycin C upregulates IL-8 and MCP-1 chemokine expression via mitogen-activated protein kinases in corneal fibroblasts. Invest Ophthalmol Vis Sci 2007 May;48(5):2009-16</li> <li>Elevated ICAM-1 and MCP-1 plasma levels in subjects at high cardiovascular risk are diminished by atorvastatin treatment. Atorvastatin on Inflammatory Markers study: a substudy of Achieve Cholesterol Targets Fast with Atorvastatin Stratified Titration. Am Heart J 2007 May;153(5):881-8</li> <li>Inhibition of migration of monocytes and granulocytes in vivo by the peptide corresponding to sequence 65-76 of monocyte chemotactic protein-1 (MCP-1). Dokl Biochem Biophys 2006 Nov-Dec;411:339-41</li> <li>Elevated white blood cell count, CRP and fibrinogen levels are not associated with increased anti-endothelial and anti-ox-LDL antibody, MCP-1, and RANTES levels in early onset occlusive carotid artery disease. Cytokine 2007 Jan;37(1):44-50</li> <li>Coxiella burnetii stimulates production of RANTES and MCP-1 by mononuc lear cells: modulation by adhesion to endothelial cells and its implication in Q fever. Eur Cytokine Netw 2006 Dec;17(4):253-9</li> <li>Changes in serum and ascitic monocyte chemotactic protein-1 (MCP-1) and IL-10 levels in cirrhotic patients with spontaneous bacterial peritonitis. J Interferon Cytokine Res 2007 Mar;27(3):227-30</li> </ol>
Pictures:	PA1158ME0607





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