

## Rat Monocyte Chemotactic Protein-1 (CCL2) Recombinant Protein - 012-001-V74-0100

**Code:** 012-001-V74-0100

**Size:** 100 µg

**Product Description:** Rat Monocyte Chemotactic Protein-1 (CCL2) Recombinant Protein - 012-001-V74-0100

**PhysicalState:** Lyophilized

<b>Label</b>	Unconjugated
<b>Host</b>	Other - E.coli
<b>Gene Name</b>	Ccl2
<b>Buffer</b>	None
<b>Reconstitution Volume</b>	100 µL
<b>Reconstitution Buffer</b>	Restore with deionized water (or equivalent)
<b>Stabilizer</b>	None
<b>Preservative</b>	None
<b>Storage Condition</b>	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
<b>Synonyms</b>	Immediate-early serum-responsive protein JE, Monocyte chemoattractant protein 1, MCAF, Monocyte chemotactic protein 1 (MCP-1), Small-inducible cytokine A2
<b>Application Note</b>	Monocyte Chemotactic Protein-1 Recombinant Protein is suitable as a control for polyclonal or monoclonal anti-Monocyte Chemotactic Protein-1 in immunological assays.
<b>Background</b>	Monocyte Chemotactic Protein 1 (MCP-1), also known as CCL2, is thought to be produced by injured or infected tissues. MCP-1 signals through G protein-coupled receptors, CCR2 and CCR4, to recruit memory T cells, monocytes and dendritic cells. Recombinant rat MCP-1 is a non-glycosylated protein, containing 125 amino acids, with a molecular weight of 14.1 kDa.
<b>Purity And Specificity</b>	Monocyte Chemotactic protein-1 (CCL2) purity was determined to be greater than 98% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
<b>Assay Dilutions</b>	User Optimized
<b>Other Assays</b>	User Optimized
<b>Expiration</b>	Expiration date is six (6) months from date of opening.

### Related Products

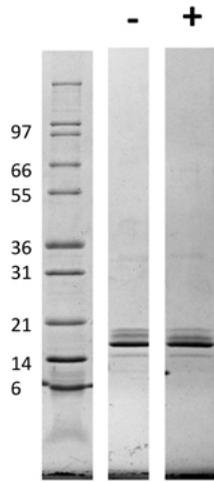
200-401-B60	Anti-Bovine CCL2 (RABBIT) Antibody - 200-401-B60
200-401-B61	Anti-Swine CCL3L1 (RABBIT) Antibody - 200-401-B61
610-1302	Anti-MOUSE IgG (H&L) (GOAT) Antibody Peroxidase Conjugated - 610-1302
BSA-50	BOVINE SERUM ALBUMIN - Fraction V (Immunoglobulin and Protease Free) - BSA-50

### Related Links

UniProtKB - P14844

### Images

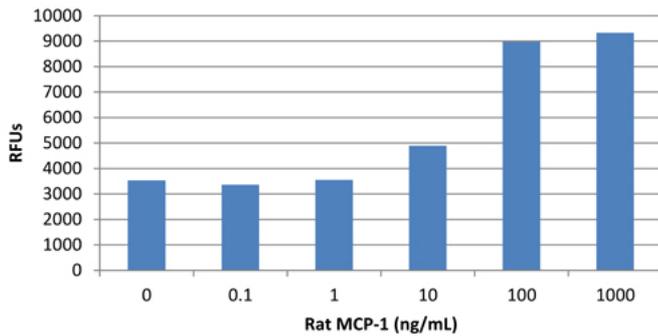
1	SDS-PAGE of Rat Monocyte Chemotactic Protein-1 (CCL2) Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Rat MCP-1 in non-reducing conditions (-). Lane 3: 1 µg Rat MCP-1 in reducing conditions (+). Rat MCP-1 has a predicted MW of 14.1 kDa.
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Bioactivity of Rat Monocyte Chemotactic Protein-1 (CCL2) Recombinant Protein. Human THP-1 cells were allowed to migrate to Rat MCP-1 at (0, 0.1, 1, 10, 100 and 1000 ng/mL). After 45 minutes, cells that migrated were counted using a luminescent substrate and displayed on the bar graph above. Significant increases in migration over basal levels were seen in response to Rat MCP-1 starting at 10 ng/mL. This value is comparable to expected ranges of a chemotactic response of primary human monocytes.

**Rat MCP-1 Induced Chemotaxis of THP-1 Cells**



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