**MCP-1 Antibody**

*For Research Use Only. Not For Use In Diagnostic Procedures.*

**Applications**

<table>
<thead>
<tr>
<th>W</th>
<th>Endogenous</th>
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**Species Cross-Reactivity**

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<th>H, (Mk)</th>
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**Molecular Wt.**

13-15 kDa

**Source**

Rabbit

**Background:** Monocyte chemotactic protein-1 (MCP-1), also known as CCL2, monocyte chemotactic activating factor (MCAF) or glioma-derived chemotactic factor-2 (GDCF-2), is the product of the human JE gene and a member of the family of C-C (or β) chemokines (1-4). MCP-1 is secreted by a variety of cell types in response to pro-inflammatory stimuli and was originally described for its chemotactic activity on monocytes. This activity has led to studies demonstrating its role in diseases characterized by monocyte infiltrates such as psoriasis (5), rheumatoid arthritis (6) and atherosclerosis (7). MCP-1 may also contribute to tumor progression and angiogenesis (8). Signaling by MCP-1 is mediated by the G-protein coupled receptor CCR2 (9).

**Specificity/Sensitivity:** MCP-1 Antibody detects endogenous levels of total human MCP-1 protein.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Cys35 of human MCP-1. Antibodies were purified by protein A and peptide affinity chromatography.

**Background References:**


**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.**

**Recommended Antibody Dilutions:**

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com. Please visit www.cellsignal.com for a complete listing of recommended companion products.

**Western blot analysis of extracts from HeLa cells, mock transfected or transfected with human MCP-1, using MCP-1 Antibody.**

**Western blot analysis of extracts from A549 cells, untreated or treated with TNF-α #2169 (20 ng/ml, 6 hrs.), using MCP-1 Antibody.**

**IMPORTANT:** For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

**Applications Key:**

<table>
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<tr>
<th>W</th>
<th>Western</th>
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**Species Cross-Reactivity Key:**

| H—human | M—mouse | R—rat | HM—hamster | MK—monkey | Mi—mink | C—chicken | Dm—D. melanogaster | X—Xenopus | Z—zebrafish | B—bovine | Sc—S. cerevisiae | Ce—C. elegans | Hr—horse | All—all species expected |

**Species enclosed in parentheses are predicted to react based on 100% homology.**

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