

# Rabbit anti-Human Monocyte Chemotactic Protein 1 mAb (CAP)

**Catalog No.:** RM17902

## Basic Information

**Catalog No.**  
RM17902

**Catagory**  
Elisa Antibody Kit

**Application**  
ELISA

## Product Information

**Ig Type**  
Rabbit IgG

**Purification**  
Affinity purification

**Endotoxin Level**

**Storage**  
This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C.  
Preservative 0.05% ProClin 300.  
**Avoid repeated freeze-thaw cycles.**

**Formulation**  
Supplied as a 0.2um filtered solution in PBS with 0.05% ProClin 300, PH 7.4.

## Contact

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 | [support@abclonal.com](mailto:support@abclonal.com)

 | [www.abclonal.com](http://www.abclonal.com)

## Background

Monocyte Chemotactic Protein-1 (MCP-1), also known as CCL2, MCAF and TDCF, is a heparin binding, 10-14 kDa member of the beta or CC family of chemokines. Currently, there are at least 26 human CC family members that generally range from 8-12 kDa in size. The majority of these chemokines are found on human chromosome 17 and all contain a typical three  $\beta$ -sheet/one  $\alpha$ -helix structure. Human MCP-1 is synthesized as a 99 amino acid (aa) precursor that contains a 23 aa signal sequence coupled to a 76 aa mature region. The mature region contains a receptor binding and dimerization N-terminus plus a glycosaminoglycan (GAG)-binding C-terminus. MCP-1 undergoes O-linked but not N-linked glycosylation, and variability in the pattern of glycosylation accounts for variability in its MW. Heavily glycosylated forms of MCP-1 show increased half-life, while lightly glycosylated forms of MCP-1 show increased bioactivity. MCP-1 circulates as a monomer and is also suggested to form dimers and/or multimers. The monomer is considered the predominant form.

## Immunogen Information

**Immunogen**  
Recombinant Human Monocyte Chemotactic Protein 1 protein

## Cross-Reactivity

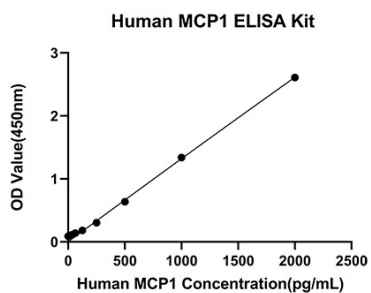
No cross-reactivity in ELISA assay with recombinant Human IL-3, Human IL-4, Human IL-5, Human IL-6, Human IL-8, Human IL-10, Human IL-12, Human IFN- $\alpha$

## Assay Applications

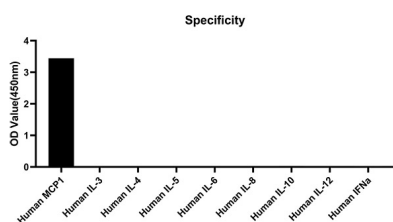
Human Monocyte Chemotactic Protein 1 Sandwich ELISA Immunoassay

	Recommended Concentration	Sample
ELISA Capture	0.5-2ug/mL	Rabbit anti-Human Monocyte Chemotactic Protein 1 (CAP)(Cat. No.RM17902)
ELISA Detection	0.0025-0.01ug/mL	Rabbit anti-Human Monocyte Chemotactic Protein 1 (DET)(Cat. No.RM17903)
Standard	31.25-2000pg/mL	Recombinant Human Monocyte Chemotactic Protein 1 Protein

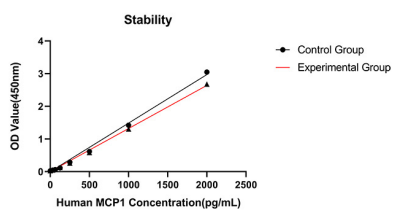
# Validation Data



This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.



No significant cross-reactivity or interference was observed.



Placed at 37°C for 3 days, the stability of the standard curve all conform to CV <10%.