Polyclonal Anti- Monocyte chemoattractant protein-1, *MCP-1*

Catalogue No. PA1356

Lot No. 01310120856124

Ig type rabbit IgG

Size 100µg/vial

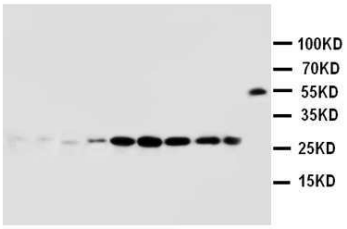
Specificity

Human, rat, mouse

No cross reactivity with other proteins.

Recommended application

Western blot



Lane 1 : Rat brain tissue Lysate
Lane 2 : Rat brain tissue Lysate
Lane 3 : Rat liver tissue Lysate
Lane 4 : Rat pancreas tissue Lysate
Lane 5 : MCF-7 Whole Cell Lysate
Lane 6 : HeLa Whole Cell Lysate
Lane 7 : MM453 Whole Cell Lysate
Lane 8 : MM231 Whole Cell Lysate
Lane 9 : HT1080 Whole Cell Lysate
Lane 10 : MK(55KD)

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminal of human MCP-1 (24-36 aa), different from the mouse sequence by two amino acids.

Purity

Immunogen affinity purified.

Application

	Concen-tration	Tested Species	Concluded Species	Antigen Retrieval
WB	1ug/ml	Hu, Rat, Ms	-	-
IHC-P	-	-	-	-
IHC-F	-	-	-	-
ICC	-	-	-	-

WB: The detection limit for MCP-1 is approximately 10ng/lane under non-reducing and reducing conditions.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for longer time.

To reorder contact us at:

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BACKGROUND

Monocyte chemoattractant protein-1 (MCP-1), a member of the chemokine (chemotactic cytokine) family, is a potent monocyte agonist that is upregulated by oxidized lipids.[1] MCP-1 is also known as CCL2, SCYA2, MCAF. MCAF is a member of family of factors involved in immune and inflammatory responses. The amino acid sequence deduced from the nucleotide sequence reveals the primary structure of the MCAF precursor to be composed of a putative signal peptide sequence of 23 amino acid residues and a mature MCAF sequence of 76 amino acid residues.[2] MCP-1 plays a unique and crucial role in the initiation of atherosclerosis and may provide a new therapeutic target in this disorder.[3] Human MCP-1 is a 8.7KDa non-glycoprotein, consisting of 99 amino acids in precursor form and 76 amino acids in mature form.

REFERENCE

1. Gosling, J.; Slaymaker, S.; Gu, L.; Tseng, S.; Zlot, C. H.; Young, S. G.; Rollins, B. J.; Charo, I. F. MCP-1 deficiency reduces susceptibility to atherosclerosis in mice that overexpress human apolipoprotein B. *J. Clin. Invest.* 103: 773-778, 1999.
2. Furutani, Y.; Nomura, H.; Notake, M.; Oyamada, Y.; Fukui, T.; Yamada, M.; Larsen, C. G.; Oppenheim, J. J.; Matsushima, K. Cloning and sequencing of the cDNA for human monocyte chemotactic and activating factor (MCAF). *Biochem. Biophys.*
3. Gu, L.; Okaka, Y.; Clinton, S. K.; Gerard, C.; Sukhova, G. K.; Libby, P.; Rollins, B. J. Absence of monocyte chemoattractant protein-1 reduces atherosclerosis in low density lipoprotein receptor-deficient mice.