

Datasheet for 209-401-B60**MCP-1 Antibody****Overview**

Description:	Anti-Human MCP-1 (RABBIT) Antibody - 209-401-B60
Item No.:	209-401-B60
Size:	100 µg
Applications:	WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	MCP-1, or Monocyte chemoattractant protein 1, of the intercrine beta (chemokine CC) family, is a chemotactic factor that attracts monocytes and basophils but not neutrophils or eosinophils. It augments monocyte anti-tumor activity and has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis or atherosclerosis. It may be involved in the recruitment of monocytes into the arterial wall during the disease process of atherosclerosis. MCP-1 exists as a monomer or homodimer; in equilibrium. It binds to CCR2 and CCR4 and is tethered on endothelial cells by glycosaminoglycan (GAG) side chains of proteoglycans. Processing at the N-terminus can regulate receptor and target cell selectivity. Deletion of the N-terminal residue converts it from an activator of basophil to an eosinophil chemoattractant.
Synonyms:	rabbit anti-MCP-1 Antibody, CCL2, C-C motif chemokine 2, Monocyte Chemotactic and Activating Factor, MCAF, Small-inducible cytokine A2, SCYA2, Monocyte chemotactic protein 1, Monocyte secretory protein JE, HC11
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CCL2
Reactivity:	Human

Immunogen Type:	Recombinant Protein
Immunogen:	This IgG fraction antibody was prepared from rabbit antiserum after repeated immunizations with mature length recombinant human MCP-1 protein produced in E.coli.
Purity/Specificity:	This product is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. This antibody is specific for human MCP-1 protein. A BLAST analysis was used to suggest cross-reactivity with MCP-1 from human sources based on 100% homology with the immunizing sequence. Based on 98 to 100% homology, there is a chance of cross-reactivity to MCP-1 from chimpanzee, orangutan, macaque, and baboon. Cross-reactivity with MCP-1 from other sources has not been determined.
Relevant Links:	• UniProtKB - P13500 • NCBI - NP_002973.1 • GenelD - 6347

Application Details

Tested Applications:	WB
Application Note:	This purified antibody has been tested in western blotting and suitable in ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 11,025 Da in size corresponding to the mature human MCP-1 protein by western blotting in appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Western Blot

Anti-human MCP-1 by western blot shows detection of recombinant human MCP-1 raised in E.coli. Recombinant (0.1 µg, expect ~8.6 kDa) protein was loaded onto and resolved by SDS-PAGE, then transferred to nitrocellulose. The membrane was blocked with 1% BSA in TBST for 30 min at RT, followed by incubation with Rockland's, Inc. Anti-Human MCP-1. After washing, membrane was probed with secondary antibody Dylight™ 649 Conjugated Anti-Rabbit IgG (H&L) (Goat) Antibody (p/n 611-143-122) diluted 1:20,000 in blocking buffer (p/n MB-070) for 30 min. at RT. Data was collected using Bio-Rad VersaDoc® 4000 MP imaging system.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.