

Datasheet: AAM43

BATCH NUMBER 172523

Description:	RABBIT ANTI MOUSE MCP-1
Specificity:	MCP-1
Other names:	CCL2
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			0.5 - 2.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml
Immunofluorescence	▪			
Functional Assays	▪			4.0 - 6.0ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using the appropriate negative/positive controls.

Target Species	Mouse
Product Form	Purified IgG - lyophilized
Reconstitution	<p>Reconstitute with 0.1ml distilled water</p> <p>Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.</p> <p>N.B. For functional studies do not add sodium azide</p>

Antiserum Preparation Antisera to mouse MCP-1 were raised by repeated immunisations of rabbits with highly

purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant mouse MCP-1 (PMP35)
External Database Links	UniProt: P10148 Related reagents Entrez Gene: 20296 Ccl2 Related reagents
Synonyms	Je, Mcp1, Scya2
RRID	AB_2071666
Specificity	<p>Rabbit anti Mouse MCP-1 antibody recognizes mouse monocyte chemotactic protein-1 (MCP-1), also known as CCL2, Small-inducible cytokine A2 or Platelet-derived growth factor-inducible protein JE. Mouse MCP-1 is a 148 amino acid ~16 kDa secreted monocyte chemotactic factor</p> <p>The chemokine MCP-1 is expressed by a range of cells including monocytes, vascular endothelial cells, smooth muscle cells, glomerular mesangial cells and osteoblasts.</p> <p>MCP-1 plays an important role in the inflammatory response of blood monocytes and tissue macrophages (Conti and DiGioacchino 2001).</p>
ELISA	This product may be used in an indirect ELISA together with PMP35 as the standard.
References	<ol style="list-style-type: none">1. Tesch GH <i>et al.</i> (1999) Monocyte chemoattractant protein-1 promotes macrophage-mediated tubular injury, but not glomerular injury, in nephrotoxic serum nephritis. J Clin Invest. 103:73-802. Ruan, L. <i>et al.</i> (2009) Amyloid deposition and inflammation in APP^{swe}/PS1^{dE9} mouse model of Alzheimer's disease. Curr Alzheimer Res. 6: 531-40.3. Daugherty, A. <i>et al.</i> (2010) Angiotensin II infusion promotes ascending aortic aneurysms: attenuation by CCR2 deficiency in apoE^{-/-} mice. Clin Sci (Lond). 118 (11): 681-9.4. Zhang, L. <i>et al.</i> (2012) Intra-amniotic administration of E coli lipopolysaccharides causes sustained inflammation of the fetal skin in sheep. Reprod Sci. 19 (11): 1181-9.5. Carrillo-de Sauvage, M.A. <i>et al.</i> (2012) CCL2-expressing astrocytes mediate the

extravasation of T lymphocytes in the brain. Evidence from patients with glioma and experimental models *in vivo*. [PLoS One. 7: e30762](#)

6. Ji, Z. *et al.* (2014) Thiamine Deficiency Promotes T Cell Infiltration in Experimental Autoimmune Encephalomyelitis: The Involvement of CCL2. [J Immunol. 193: 2157-67.](#)

7. Zhang, K. *et al.* (2018) Role of MCP-1 and CCR2 in ethanol-induced neuroinflammation and neurodegeneration in the developing brain. [J Neuroinflammation. 15 \(1\): 197.](#)

8. Ji, Z. *et al.* (2019) Obesity Promotes EAE Through IL-6 and CCL-2-Mediated T Cells Infiltration. [Front Immunol. 10: 1881.](#)

9. Rong, Y. *et al.* (2023) Engineered extracellular vesicles for delivery of siRNA promoting targeted repair of traumatic spinal cord injury. [Bioact Mater. 23: 328-42.](#)

10. Ren, Z. *et al.* (2019) Minocycline attenuates ethanol-induced cell death and microglial activation in the developing spinal cord. [Alcohol. 79: 25-35.](#)

Storage

This product is shipped at ambient temperature.
Prior to reconstitution store at -20°C.
After reconstitution store at -20°C.

This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10294 available at: <https://www.bio-rad-antibodies.com/SDS/AAM43>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M438985:250523'

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