

## Datasheet: AAR31

**BATCH NUMBER 170505**

<b>Description:</b>	RABBIT ANTI RAT MCP-1
<b>Specificity:</b>	MCP-1
<b>Other names:</b>	CCL2
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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
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 systems with the appropriate negative/positive controls.

<b>Target Species</b>	Rat
<b>Product Form</b>	Purified IgG - lyophilised
<b>Reconstitution</b>	<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.</p> <p>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 rat MCP-1 were raised by repeated immunisations of rabbits with highly

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

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml after reconstitution.
<b>Immunogen</b>	Recombinant rat MCP-1.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P14844</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">24770</a> Ccl2 <a href="#">Related reagents</a>
<b>Synonyms</b>	Je, Mcp1, Scya2
<b>RRID</b>	AB_2071792
<b>Specificity</b>	<b>Rabbit anti Rat MCP-1 antibody</b> recognizes rat monocyte chemo attractant protein-1 (MCP-1), also known as CCL-2.  Rat MCP-1 is a chemokine of approximately 12 kDa, which plays an important role in the inflammatory response of blood monocytes and tissue macrophages.
<b>References</b>	<ol style="list-style-type: none"><li>1. Zhang, H. <i>et al.</i> (2016) Dorsal root ganglion infiltration by macrophages contributes to paclitaxel chemotherapy induced peripheral neuropathy. <a href="#">J Pain. Mar 12. pii: S1526-5900(16)00562-9. [Epub ahead of print]</a></li><li>2. Aharon-Hananel, G. <i>et al.</i> (2015) Antidiabetic Effect of Interleukin-1<math>\beta</math> Antibody Therapy Through <math>\beta</math>-Cell Protection in the Cohen Diabetes-Sensitive Rat. <a href="#">Diabetes. 64 (5): 1780-5.</a></li><li>3. Schreiber, R.C. <i>et al.</i> (2001) Monocyte chemoattractant protein (MCP)-1 is rapidly expressed by sympathetic ganglion neurons following axonal injury. <a href="#">Neuroreport. 12 (3): 601-6.</a></li><li>4. Tomas-sanchez, C. <i>et al.</i> (2018) Prophylactic Zinc and Therapeutic Selenium Administration Increases the Antioxidant Enzyme Activity in the Rat Temporoparietal Cortex and Improves Memory after a Transient Hypoxia-Ischemia. <a href="#">Oxid Med Cell Longev. 2018: 9416432.</a></li><li>5. Rong, Y. <i>et al.</i> (2021) Small extracellular vesicles encapsulating CCL2 from activated astrocytes induce microglial activation and neuronal apoptosis after traumatic spinal cord injury. <a href="#">J Neuroinflammation. 18 (1): 196.</a></li></ol>
<b>Storage</b>	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.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10162 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AAR31">https://www.bio-rad-antibodies.com/SDS/AAR31</a> 10162
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

### Recommended Useful Reagents

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M372447:200706'

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