

Datasheet: MCA5709

**BATCH NUMBER 160062**

<b>Description:</b>	MOUSE ANTI HUMAN CD68
<b>Specificity:</b>	CD68
<b>Other names:</b>	MACROSIALIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	KP1
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 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 (1)	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (2)	▪			
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			
Immunofluorescence	▪			

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 appropriate negative/positive controls.

**(1)Membrane permeabilisation is required for this application. Leucoperm™ (BUF09A) is recommended for this purpose.**

**(2)This antibody requires heat-mediated antigen retrieval prior to staining paraffin sections. Citrate buffer, pH6.0, is recommended for this purpose.**

### Target Species

Human

### Species Cross Reactivity

Reacts with: Primate, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or

personal communications from the originators. Please refer to references indicated for further information.

<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Subcellular fraction of human alveolar macrophages
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P34810</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">968</a> CD68 <a href="#">Related reagents</a>
<b>RRID</b>	AB_11152768
<b>Specificity</b>	<b>Mouse anti human CD68 antibody, clone KP1</b> recognizes the human CD68 cell surface antigen, a ~110 kDa glycoprotein primarily expressed by macrophages and monocytes.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"><li>1. Pulford, K.A. <i>et al.</i> (1989) KP1: a new monoclonal antibody that detects a monocyte/macrophage associated antigen in routinely processed tissue sections. <a href="#">J Clin Pathol. 42 (4): 414-21.</a></li><li>2. Xiao, J. <i>et al.</i> (2016) Effects of ketanserin on experimental colitis in mice and macrophage function. <a href="#">Int J Mol Med. 37 (3): 659-68.</a></li><li>3. Masaki, T. <i>et al.</i> (2004) Activation of the extracellular-signal regulated protein kinase pathway in human glomerulopathies. <a href="#">J Am Soc Nephrol. 15 (7): 1835-43.</a></li><li>4. Vroon, A. <i>et al.</i> (2007) Neuroinflammation in Parkinson's patients and MPTP-treated mice is not restricted to the nigrostriatal system: microgliosis and differential expression of interleukin-1 receptors in the olfactory bulb. <a href="#">Exp Gerontol. 42 (8): 762-71.</a></li><li>5. Schwarz, F. <i>et al.</i> (2016) Human-specific derived alleles of CD33 and other genes protect against postreproductive cognitive decline. <a href="#">Proc Natl Acad Sci U S A. 113 (1): 74-9.</a></li><li>6. Blanco, R.E. <i>et al.</i> (2019) Application of CNTF or FGF-2 increases the number of M2-like macrophages after optic nerve injury in adult <i>Rana pipiens</i>.. <a href="#">PLoS One. 14 (5):</a></li></ol>

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**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA5709>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

### Recommended Useful Reagents

[LEUCOPERM \(BUF09\)](#)

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