

## Datasheet: MCA1815T

**BATCH NUMBER 155577**

<b>Description:</b>	MOUSE ANTI HUMAN CD68
<b>Specificity:</b>	CD68
<b>Other names:</b>	MACROSIALIN
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	514H12
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.1 ml

## 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 (1)	▪			1/40 - 1/80
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) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Tris/EDTA buffer pH 9.0 is recommended for this purpose. *N.B. The epitope recognised by clone 514H12 is sensitive to peroxide. It is therefore recommended that any peroxidase-blocking steps be performed after incubation with this antibody.***

<b>Target Species</b>	Human
<b>Product Form</b>	Tissue Culture Supernatant - liquid

<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Immunogen</b>	Fusion protein corresponding to external domain of human CD68.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P34810</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">968</a>    CD68    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2074721
<b>Fusion Partners</b>	Spleen cells from immunized mice were fused with cells of the mouse p3-NS1-Ag4-1 myeloma cell line
<b>Specificity</b>	<b>Mouse anti Human CD68 antibody, clone 514H12</b> recognizes the human CD68 cell surface antigen, a ~110 kDa glycoprotein primarily expressed by macrophages and monocytes.
<b>Histology Positive Control Tissue</b>	Human Tonsil
<b>References</b>	<ol style="list-style-type: none"> <li>Hameed, A. <i>et al.</i> (1994) Immunohistochemical expression of CD68 antigen in human peripheral blood T cells. <a href="#">Hum Pathol. 25 (9): 872-6.</a></li> <li>Madden, L.R. <i>et al.</i> (2010) Proangiogenic scaffolds as functional templates for cardiac tissue engineering. <a href="#">Proc Natl Acad Sci U S A. 107 (34): 15211-6.</a></li> <li>Muthana, M. <i>et al.</i> (2011) Use of macrophages to target therapeutic adenovirus to human prostate tumors. <a href="#">Cancer Res. 71 (5): 1805-15.</a></li> <li>da Costa, C.E. <i>et al.</i> (2005) Presence of osteoclast-like multinucleated giant cells in the bone and nonostotic lesions of Langerhans cell histiocytosis. <a href="#">J Exp Med. 201 (5): 687-93.</a></li> <li>Wang, X. <i>et al.</i> (2006) Monocyte/macrophage and T-cell infiltrates in peritoneum of patients with ovarian cancer or benign pelvic disease. <a href="#">J Transl Med. 4: 30.</a></li> <li>Coury, F. <i>et al.</i> (2008) Langerhans cell histiocytosis reveals a new IL-17A-dependent pathway of dendritic cell fusion. <a href="#">Nat Med. 14: 81-7.</a></li> <li>Rodriguez-Agudo, D. <i>et al.</i> (2006) Localization of StarD5 cholesterol binding protein. <a href="#">J Lipid Res. 47: 1168-75.</a></li> <li>Achard, V. <i>et al.</i> (2007) Renin receptor expression in human adipose tissue. <a href="#">Am J Physiol Regul Integr Comp Physiol. 292: R274-82.</a></li> <li>Paulmyer-Lacroix, O. <i>et al.</i> (2006) Expression of adrenomedullin in adipose tissue of lean and obese women. <a href="#">Eur J Endocrinol. 155: 177-85.</a></li> <li>Hever, A. <i>et al.</i> (2007) Human endometriosis is associated with plasma cells and overexpression of B lymphocyte stimulator. <a href="#">Proc Natl Acad Sci U S A. 104: 12451-6.</a></li> <li>Silaghi, A. <i>et al.</i> (2007) Expression of adrenomedullin in human epicardial adipose tissue: role of coronary status. <a href="#">Am J Physiol Endocrinol Metab. 293: E1443-50.</a></li> <li>Kaibara, N. <i>et al.</i> (2008) Comparative histopathological analysis between tenosynovitis and joint synovitis in rheumatoid arthritis. <a href="#">Histopathology. 52: 856-64.</a></li> <li>Moskovszky, L. <i>et al.</i> (2009) Genomic instability in giant cell tumor of bone. A study of</li> </ol>

52 cases using DNA ploidy, relocalization FISH, and array-CGH analysis. [Genes Chromosomes Cancer. 48: 468-79.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.

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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**Guarantee**

Guaranteed until date of expiry. Please see product label.

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**Health And Safety Information**

Material Safety Datasheet documentation #10055 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1815T10055>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

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 (STAR9...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

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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)  
'M353473:190423'

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