

# Datasheet: MCA1815T BATCH NUMBER 161606

Description: MOUSE ANTI HUMAN CD6		
Specificity:	CD68	
Other names:	MACROSIALIN	
Format:	S/N	
<b>Product Type:</b>	Monoclonal Antibody	
Clone:	one: 514H12	
Isotype:	IgG2a	
Quantity: 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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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.

Target Species	Human
Product Form	Tissue Culture Supernatant - liquid

Preservative Stabilisers	<0.1% Sodium Azide (NaN <sub>3</sub> )	
Immunogen	Fusion protein corresponding to external domain of human CD68.	
External Database Links	UniProt:  P34810 Related reagents  Entrez Gene:  968 CD68 Related reagents	
RRID	AB_2074721	
Fusion Partners	Spleen cells from immunized mice were fused with cells of the mouse p3-NS1-Ag4-1 myeloma cell line	
Specificity	<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.	
Histology Positive Control Tissue	Human Tonsil	
References	<ol> <li>Hameed, A. <i>et al.</i> (1994) Immunohistochemical expression of CD68 antigen in human peripheral blood T cells. Hum Pathol. 25 (9): 872-6.</li> <li>Madden, L.R. <i>et al.</i> (2010) Proangiogenic scaffolds as functional templates for cardiac tissue engineering. Proc Natl Acad Sci U S A. 107 (34): 15211-6.</li> <li>Muthana, M. <i>et al.</i> (2011) Use of macrophages to target therapeutic adenovirus to human prostate tumors. Cancer Res. 71 (5): 1805-15.</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. J Exp Med. 201 (5): 687-93.</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. J Transl Med. 4: 30.</li> <li>Coury, F. <i>et al.</i> (2008) Langerhans cell histiocytosis reveals a new IL-17A-dependent pathway of dendritic cell fusion. Nat Med. 14: 81-7.</li> <li>Rodriguez-Agudo, D. <i>et al.</i> (2006) Localization of StarD5 cholesterol binding protein. J Lipid Res. 47: 1168-75.</li> <li>Achard, V. <i>et al.</i> (2007) Renin receptor expression in human adipose tissue. Am J Physiol Regul Integr Comp Physiol. 292: R274-82.</li> <li>Paulmyer-Lacroix, O. <i>et al.</i> (2006) Expression of adrenomedullin in adipose tissue of lean and obese women. Eur J Endocrinol. 155: 177-85.</li> <li>Hever, A. <i>et al.</i> (2007) Human endometriosis is associated with plasma cells and overexpression of B lymphocyte stimulator. Proc Natl Acad Sci U S A. 104: 12451-6.</li> <li>Silaghi, A. <i>et al.</i> (2007) Expression of adrenomedullin in human epicardial adipose tissue: role of coronary status. Am J Physiol Endocrinol Metab. 293: E1443-50.</li> <li>Kaibara, N. <i>et al.</i> (2008) Comparative histopathological analysis between tenosynovitis and joint synovitis in rheumatoid arthritis. Histopathology. 52: 856-64.</li> <li>Moskovszky, L. <i>et al.</i> (2009) Genomic instability in giant cell tumor of bone. A study of&lt;</li></ol>	

- 52 cases using DNA ploidy, relocalization FISH, and array-CGH analysis. <u>Genes</u> Chromosomes Cancer. 48: 468-79.
- 14. Angel, C.E. *et al.* (2007) CD14+ antigen-presenting cells in human dermis are less mature than their CD1a+ counterparts. <u>Int Immunol. 19: 1271-9.</u>
- 15. de Vos van Steenwijk PJ *et al.* (2013) Tumor-infiltrating CD14-positive myeloid cells and CD8-positive T-cells prolong survival in patients with cervical carcinoma. <u>Int J Cancer.</u> 133 (12): 2884-94.
- 16. Quispel, W.T. *et al.* (2016) Tertiary lymphoid structures are confined to patients presenting with unifocal Langerhans Cell Histiocytosis. <u>Oncoimmunology</u>. 5 (8): e1164364.
- 17. Toh, M.L. *et al.* (2014) Bone- and cartilage-protective effects of a monoclonal antibody against colony-stimulating factor 1 receptor in experimental arthritis. <u>Arthritis Rheumatol.</u> 66 (11): 2989-3000.
- 18. Schirmer, L. *et al.* (2014) Differential loss of KIR4.1 immunoreactivity in multiple sclerosis lesions. Ann Neurol. 75 (6): 810-28.
- 19. Schrevel, M. *et al.* (2017) Autocrine expression of the epidermal growth factor receptor ligand heparin-binding EGF-like growth factor in cervical cancer. <u>Int J Oncol. 50 (6):</u> 1947-54.
- 20. Zhang, W. *et al.* (2013) Myeloid clusters are associated with a pro-metastatic environment and poor prognosis in smoking-related early stage non-small cell lung cancer. PLoS One. 8 (5): e65121.
- 21. Bobosha, K. *et al.* (2014) T-cell regulation in lepromatous leprosy. <u>PLoS Negl Trop</u> Dis. 8 (4): e2773.
- 22. van Poppel, P.C.M. *et al.* (2018) Inflammation in the subcutaneous adipose tissue does not attenuate endothelial function in subjects with diabetes mellitus and subjects with dyslipidaemia and hypertension: A cross-sectional study. <u>Endocrinol Diabetes Metab. 1</u> (3): e00020.
- 23. Yuan, A. *et al.* (2020) Histologic analysis of medication-related osteonecrosis of the jaw compared with antiresorptive-exposed bone and other infectious, inflammatory, and necrotic jaw diseases. Oral Surg Oral Med Oral Pathol Oral Radiol. 129 (2): 133-40.
- 24. Durán, D. *et al.* (2020) Histological and Immunohistochemical Study of Wounds in Sheep Skin in Maggot Therapy by Using *Protophormia terraenovae.* (Diptera: *Calliphoridae.*) Larvae. <u>J Med Entomol. 57 (2): 369-76.</u>

#### **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.

Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #10055 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1815T">https://www.bio-rad-antibodies.com/SDS/MCA1815T</a> 10055
Regulatory	For research purposes only

## **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

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M389336:210806'

#### Printed on 29 Feb 2024

© 2024 Bio-Rad Laboratories Inc | Legal | Imprint