

Datasheet: MCA1815T BATCH NUMBER 162475

Description:	MOUSE ANTI HUMAN CD68	
Specificity:	CD68	
Other names:	MACROSIALIN	
Format:	S/N	
Product Type:	Monoclonal Antibody	
Clone:	514H12	
Isotype:	lgG2a	
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 <u>www.bio-</u>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.

Target Species	Human
Product Form	Tissue Culture Supernatant - liquid

Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)			
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	Mouse anti Human CD68 antibody, clone 514H12 recognizes the human CD68 cell surface antigen, a ~110 kDa glycoprotein primarily expressed by macrophages and monocytes.			
Histology Positive Control Tissue	Human Tonsil			
References	 Hameed, A. <i>et al.</i> (1994) Immunohistochemical expression of CD68 antigen in human peripheral blood T cells. <u>Hum Pathol. 25 (9): 872-6.</u> Madden, L.R. <i>et al.</i> (2010) Proangiogenic scaffolds as functional templates for cardiac tissue engineering. <u>Proc Natl Acad Sci U S A. 107 (34): 15211-6.</u> Muthana, M. <i>et al.</i> (2011) Use of macrophages to target therapeutic adenovirus to human prostate tumors. <u>Cancer Res. 71 (5): 1805-15.</u> 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. <u>J Exp Med. 201 (5): 687-93.</u> Wang, X. <i>et al.</i> (2006) Monocyte/macrophage and T-cell infiltrates in peritoneum of patients with ovarian cancer or benign pelvic disease. <u>J Transl Med. 4: 30.</u> Coury, F. <i>et al.</i> (2008) Langerhans cell histiocytosis reveals a new IL-17A-dependent pathway of dendritic cell fusion. <u>Nat Med. 14: 81-7.</u> Rodriguez-Agudo, D. <i>et al.</i> (2006) Localization of StarD5 cholesterol binding protein. <u>J Lipid Res. 47: 1168-75.</u> Achard, V. <i>et al.</i> (2007) Renin receptor expression in human adipose tissue. <u>Am J Physiol Regul Integr Comp Physiol. 292: R274-82.</u> Paulmyer-Lacroix, O. <i>et al.</i> (2006) Expression of adrenomedullin in adipose tissue of lean and obese women. <u>Eur J Endocrinol. 155: 177-85.</u> Hever, A. <i>et al.</i> (2007) Expression of adrenomedullin in human epicardial adipose tissue: role of coronary status. <u>Am J Physiol Endocrinol Metab. 293: E1443-50.</u> Kaibara, N. <i>et al.</i> (2008) Comparative histopathological analysis between tenosynovitis and joint synovitis in rheumatoid arthritis. <u>Histopathology. 52: 856-64.</u> Moskovszky, L. <i>et al.</i> (2009) Genomic instability in giant cell tumor of bone. A study of 			

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

Related Products

Recommended Secondary Antibodies

Rabbit A	nti Mouse IgG (STAR12)	RPE		
Goat Ant	i Mouse IgG IgA IgM (STAR87) <u>HRP</u>		
Goat Anti Mouse IgG (STAR76)		RPE		
Goat Anti Mouse IgG (STAR70)		FITC		
Goat Ant	i Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,		
		DyLight®650, DyLight®680, DyLight®80	<u>0,</u>	
		<u>FITC, HRP</u>		
Rabbit A	nti Mouse IgG (STAR9)	<u>FITC</u>		
Goat Anti Mouse IgG (STAR77)		HRP		
Goat Anti Mouse IgG (Fc) (STAR120)		<u>FITC, HRP</u>		
Rabbit A	nti Mouse IgG (STAR13)	HRP		
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America	Fax: +1 919 878 3751	Fax: +44 (0)1865 852 739	Fax: +49 (0) 89 8090 95 50	
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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 'M389336:210806'

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