

## Datasheet: MCA1777S

<b>Description:</b>	MOUSE ANTI DOG CD11b
<b>Specificity:</b>	CD11b
<b>Other names:</b>	INTEGRIN ALPHA M CHAIN, MAC-1
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CA16.3E10
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	2 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	■			Neat
Immunohistology - Frozen (1)	■			
Immunohistology - Paraffin		■		
ELISA			■	
Immunoprecipitation	■			
Western Blotting			■	

Where this product 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 product for use in their own system using appropriate negative/positive controls.

**(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.**

<b>Target Species</b>	Dog
<b>Species Cross Reactivity</b>	Reacts with: Goat, Cat, Mustelid, Pig, Bovine, Mink, Beluga whale <b>N.B.</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.

Product Form	Tissue culture supernatant - liquid
Preservative Stabilisers	<0.1% sodium azide (NaN <sub>3</sub> )
Immunogen	Affinity purified beta-2 integrins from splenic lysate
RRID	AB_322922
Specificity	<p><b>Mouse anti Dog CD11b antibody, clone CA16.3E10</b> is a monoclonal antibody recognizing the canine CD11b cell surface antigen, a member of the alpha integrin family. CD11b forms one of the possible alpha chains of the canine leukocyte adhesion complexes (LeuCAMs), these contain a common 95 kDa <math>\beta</math> chain (<a href="#">CD18</a>) non-covalently bound to either a 150 kDa (<a href="#">CD11c</a>), 165 kDa (CD11b) or 180 kDa (CD11a) <math>\alpha</math> chain (<a href="#">Moore et al. 1990</a>). The CD11/CD18 complex is also known as the CR3 receptor.</p> <p>Canine CD11b is expressed by granulocytes, monocytes, NK cells and some macrophages. Mouse anti Dog CD11b antibody, clone CA16.3E10 has been used to evaluate the effect of anesthetic administration of CD11b expression on canine neutrophils (<a href="#">Maeda et al. 2010</a>) demonstrating attenuation of CD11b expression at high concentrations administered lidocaine hydrochloride and reduced adhesion of neutrophils to endothelium.</p>
Flow Cytometry	Use 10 $\mu$ l of the suggested working dilution to label 10 <sup>6</sup> cells or 100 $\mu$ l whole blood
References	<ol style="list-style-type: none"> <li>1. Danilenko, D.M. <i>et al.</i> (1992) Canine leukocyte cell adhesion molecules (LeuCAMs): characterization of the CD11/CD18 family. <a href="#">Tissue Antigens 40: 13-21.</a></li> <li>2. Brodersen, R. <i>et al.</i> (1998) Analysis of the immunological cross reactivities of 213 well characterized monoclonal antibodies with specificities against various leucocyte surface antigens of human and 11 animal species. <a href="#">Vet Immunol Immunopathol. 64 (1): 1-13.</a></li> <li>3. Kruger, E.F. <i>et al.</i> (2003) Bovine monocytes induce immunoglobulin production in peripheral blood B lymphocytes. <a href="#">Dev Comp Immunol. 27 (10): 889-97.</a></li> <li>4. Kamstock, D. <i>et al.</i> (2006) Liposome-DNA complexes infused intravenously inhibit tumor angiogenesis and elicit antitumor activity in dogs with soft tissue sarcoma. <a href="#">Cancer Gene Ther. 13: 306-17.</a></li> <li>5. Sampaio, W.M. (2007) <i>In vitro</i> binding and survival assays of <i>Leishmania</i> parasites to peripheral blood monocytes and monocyte-derived macrophages isolated from dogs naturally and experimentally infected with <i>Leishmania chagasi</i>. <a href="#">BMC Vet Res. 3:11.</a></li> <li>6. Yuasa, K. <i>et al.</i> (2007) Injection of a recombinant AAV serotype 2 into canine skeletal muscles evokes strong immune responses against transgene products. <a href="#">Gene Ther. 14: 1249-60.</a></li> <li>7. Gregorevic, P. <i>et al.</i> (2009) Evaluation of vascular delivery methodologies to enhance rAAV6-mediated gene transfer to canine striated musculature. <a href="#">Mol Ther. 17: 1427-33.</a></li> <li>8. Maiolini, A. <i>et al.</i> (2012) Toll-like receptors 4 and 9 are responsible for the maintenance of the inflammatory reaction in canine steroid-responsive meningitis-arteritis, a large animal model for neutrophilic meningitis. <a href="#">J Neuroinflammation. 9: 226.</a></li> <li>9. Sherger, M. <i>et al.</i> (2012) Identification of myeloid derived suppressor cells in the peripheral blood of tumor bearing dogs. <a href="#">BMC Vet Res. 8: 209.</a></li> </ol>

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<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10053 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1777S">https://www.bio-rad-antibodies.com/SDS/MCA1777S</a> 10053
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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