

Datasheet: MCA1777S

BATCH NUMBER 180607

Description:	MOUSE ANTI DOG CD11b
Specificity:	CD11b
Other names:	INTEGRIN ALPHA M CHAIN, MAC-1
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	CA16.3E10
Isotype:	IgG1
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat
Immunohistology - Frozen (1)	▪			
Immunohistology - Paraffin		▪		
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested recommended dilutions are given as guide only. It is recommended that the user titrates the antibody 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.

Target Species

Dog

Species Cross Reactivity

Reacts with: Goat, Cat, Mustelid, Pig, Bovine, Mink, Beluga whale

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.

Product Form	Tissue Culture Supernatant - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide
Immunogen	Affinity purified beta-2 integrins from splenic lysate
RRID	AB_322922
Specificity	<p>Mouse anti Dog CD11b antibody, clone CA16.3E10 is a monoclonal antibody recognising 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 β chain (CD18) non-covalently bound to either a 150 kDa (CD11c), 165 kDa (CD11b) or 180 kDa (CD11a) α chain (Moore et al. 1990). 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 (CA16.3E10) has been used to evaluate the effect of anesthetic administration of CD11b expression on canine neutrophils (Maeda et al. 2010) demonstrating attenuation of CD11b expression at high concentrations administered lidocaine hydrochloride and reduced adhesion of neutrophils to endothelium.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells or 100ul whole blood
References	<ol style="list-style-type: none"> Danilenko, D.M. <i>et al.</i> (1992) Canine leukocyte cell adhesion molecules (LeuCAMs): characterization of the CD11/CD18 family. Tissue Antigens 40: 13-21. 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. Vet Immunol Immunopathol. 64 (1): 1-13. Sampaio, W.M. (2007) In vitro 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>. BMC Vet Res. 3:11. 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. J Neuroinflammation. 9: 226. 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. Gene Ther. 14: 1249-60. 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. Cancer Gene Ther. 13: 306-17. Sherger, M. <i>et al.</i> (2012) Identification of myeloid derived suppressor cells in the peripheral blood of tumor bearing dogs. BMC Vet Res. 8: 209. Gregorevic, P. <i>et al.</i> (2009) Evaluation of vascular delivery methodologies to enhance rAAV6-mediated gene transfer to canine striated musculature. Mol Ther. 17: 1427-33. Figueiredo, M.M. <i>et al.</i> (2013) Expression of Toll-like Receptors 2 and 9 in cells of dog

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Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>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.</p>
Guarantee	18 months from date of despatch.
Health And Safety Information	<p>Material Safety Datasheet documentation #10336 available at: https://www.bio-rad-antibodies.com/SDS/MCA1777S</p> <p>10336</p>
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
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M334730:181203'

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