Datasheet: MCA1779A647

Description:	MOUSE ANTI DOG CD11d:Alexa Fluor® 647
Specificity:	CD11d
Other names:	INTEGRIN ALPHA D CHAIN
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	CA11.8H2
Isotype:	IgG1
Quantity:	100 TESTS/1ml

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 - 1/5
Immunofluorescence			▪	

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.

Target Species

Dog

Product Form

Purified IgG conjugated to Alexa Fluor® 647- liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
Alexa Fluor®647	650	665

Preparation

Purified IgG prepared by affinity chromatography on Protein A

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.05 mg/ml

Immunogen

Affinity purified CD11 antigen from canine spleen.

Specificity

Mouse anti Dog CD11d antibody, clone CA11.8H2 recognizes the canine CD11d cell surface antigen, also known as integrin alpha d subunit.

	The alpha d integrin (CD11d) subunit is expressed as a heterodimer with beta 2 integrin (CD18). CD11d is expressed by a sub-population of macrophages, some CD8 positive T cells and by gamma/delta T cells in the splenic red pulp. Over expression of CD11d is noted in histiocytic disorders including hemophagocytic sarcoma, described as a proliferative disorder specifically of CD11+ macrophages (Moore. *et al.* 2006) with macrophages demonstrating marked erythrocytic phagocytosis. Previously, canine histiocytic sarcoma were described as originating entirely from interstitial dendritic cells. Cells from animals with canine hepatosplenic T cell lymphoma (HTSL) strongly express CD11d on malignant cells. Dogs normally demonstrate strong positivity for CD11d on large granular lymphocytes, macrophages and T cells in the splenic red pulp. CD11+ γ/δ T cells constitute ~30% red pulp T cells despite their rarity in peripheral blood, suggesting a splenic red pulp origin of HTSL (Fry *et al.* 2003).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul
References	1. Danilenko, D.M. *et al*. (1995) A novel canine leukointegrin, alpha d beta 2, is expressed by specific macrophage subpopulations in tissue and a minor CD8+ lymphocyte subpopulation in peripheral blood. J Immunol. 155:35-44. 2. Moore, P.F. *et al.* (2006) Canine hemophagocytic histiocytic sarcoma: a proliferative disorder of CD11d+ macrophages. Vet Pathol. 43:632-45. 3. Vernau, W. and Moore, P.F. (1999) An immunophenotypic study of canine leukemias and preliminary assessment of clonality by polymerase chain reaction. Vet Immunol Immunopathol. 69:145-64. 4. Fry, M.M. *et al.* (2003) Hepatosplenic lymphoma in a dog. Vet Pathol. 40:556-62. 5. Stokol, T. *et al.* (2015) Alkaline phosphatase is a useful cytochemical marker for the diagnosis of acute myelomonocytic and monocytic leukemia in the dog. Vet Clin Pathol. 44 (1): 79-93.
Further Reading	1. Vernau. W. (2004) Flow Cytometric Assessment of Hematopoietic Neoplasia in the Dog. In: 55th Annual Meeting of the American College of Veterinary Pathologists (ACVP) & 39th Annual Meeting of the American Society of Clinical Pathology (ASVCP),
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf

Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 (MCA928A647)

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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Printed on 01 May 2018

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