Datasheet: MCA1779GA

Description:	MOUSE ANTI DOG CD11d
Specificity:	CD11d
Other names:	INTEGRIN ALPHA D CHAIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CA11.8H2
Isotype:	IgG1
Quantity:	0.1 mg

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	▪			1/50 - 1/200
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.**

Target Species	Dog
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 1.0 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 10^6 cells or 100ul whole blood
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. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP

Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	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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