

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.

Guarantee 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 IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , 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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