# Datasheet: MCA1778S

| | |
|---|---|
| **Description:** | MOUSE ANTI DOG CD11c |
| **Specificity:** | CD11c |
| **Other names:** | INTEGRIN ALPHA X CHAIN |
| **Format:** | S/N |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | CA11.6A1 |
| **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 | ▪ | | | |
| 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. 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: Hooded Seal, Raccoon
**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

| | |
|---|---|
| **Preservative Stabilisers** | 0.1% Sodium Azide |
| **RRID** | AB_322942 |
| **Specificity** | **Mouse anti Dog CD11c antibody, clone CA11.6A1** recognizes the canine CD11c cell surface antigen, a member of the alpha integrin family. Canine CD11c is expressed by monocytes, granulocytes and by dendritic cells.<br><br>Mouse anti Dog CD11c, clone CA11.6A1 immunoprecipitates proteins of approximately 95 kDa, corresponding to the common β chain of the CD11/CD18 heterodimer and ~150 kDa, the CD11c; chain from canine leukocyte preparations (Danilenko *et al.* 1992) |
| **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*. (1992) Canine leukocyte cell adhesion molecules (LeuCAMS): characterization of the CD11/CD18 family. Tissue Antigens 40: 13-21.
2. Kang, J.W. *et al.* (2008) Soluble factors-mediated immunomodulatory effects of canine adipose tissue-derived mesenchymal stem cells. Stem Cells Dev. 17: 681-93.
3. Affolter, V.K. and Moore, P.F. (2002) Localized and disseminated histiocytic sarcoma of dendritic cell origin in dogs. Vet Pathol. 39: 74-83.
4. Bird, R.C. *et al.* (2008) An allogeneic hybrid-cell fusion vaccine against canine mammary cancer. Vet Immunol Immunopathol. 123: 289-304.
5. Catchpole, B. *et al.* (2002) Generation of blood-derived dendritic cells in dogs with oral malignant melanoma. J Comp Pathol. 126: 238-41.
6. Isotani, M. *et al.* (2006) Efficient generation of canine bone marrow-derived dendritic cells. J Vet Med Sci. 68: 809-14.
7. Liu, C.C. *et al.* (2008) Transient downregulation of monocyte-derived dendritic-cell differentiation, function, and survival during tumoral progression and regression in an in vivo canine model of transmissible venereal tumor. Cancer Immunol Immunother. 57: 479-91.
8. McDonough, S.P. and Moore, P.F. (2000) Clinical, hematologic, and immunophenotypic characterization of canine large granular lymphocytosis. Vet Pathol. 37: 637-46.
9. Wang, Y.S. *et al.* (2007) Characterization of canine monocyte-derived dendritic cells with phenotypic and functional differentiation. Can J Vet Res. 71: 165-74.
10. Mathes, M. *et al.* (2006) Evaluation of liposomal clodronate in experimental spontaneous autoimmune hemolytic anemia in dogs. Exp Hematol. 34: 1393-402.
11. Sanchez, M.A. *et al.* (2004) Organ-specific immunity in canine visceral leishmaniasis: analysis of symptomatic and asymptomatic dogs naturally infected with *Leishmania chagasi*. Am J Trop Med Hyg. 70: 618-24.
12. Ricklin Gutzwiller, M.E. *et al.* (2010) Comparative analysis of canine monocyte- and bone-marrow-derived dendritic cells. Vet Res. 41: 40.
13. Ibisch, C. *et al.* (2005) Functional canine dendritic cells can be generated in vitro from peripheral blood mononuclear cells and contain a cytoplasmic ultrastructural marker. J Immunol Methods. 298: 175-82.
14. Wang, Y.S. *et al.* (2008) Cytokine profiles of canine monocyte-derived dendritic cells as a function of lipopolysaccharide- or tumor necrosis factor-alpha-induced maturation. Vet Immunol Immunopathol. 118: 186-98.

15. Schwartz, M. *et al.* (2008) Selective CD11a upregulation on neutrophils in the acute phase of steroid-responsive meningitis-arteritis in dogs. Vet Immunol Immunopathol. 126: 248-55.
16. Pai, C.C. *et al.* (2011) Immunopathogenic behaviors of canine transmissible venereal tumor in dogs following an immunotherapy using dendritic/tumor cell hybrid. Vet Immunol Immunopathol. 139 (2-4): 187-99.
17. Figueiredo, M.M. *et al.* (2013) Expression of Toll-like Receptors 2 and 9 in cells of dog jejunum and colon naturally infected with *Leishmania infantum*. BMC Immunol. 14: 22.
18. Larsen, A.K. *et al.* (2013) Entry and elimination of marine mammal *Brucella* spp. by hooded seal (*Cystophora cristata*) alveolar macrophages *in vitro*. PLoS One. 8: e70186.
19. Heinrich, F. *et al.* (2015) Immunophenotyping of immune cell populations in the raccoon (*Procyon lotor*). Vet Immunol Immunopathol. 168 (3-4): 140-6.
20. Paoloni, M. *et al.* (2015) Defining the Pharmacodynamic Profile and Therapeutic Index of NHS-IL12 Immunocytokine in Dogs with Malignant Melanoma. PLoS One. 10 (6): e0129954.
21. Bonnefont-Rebeix, C. *et al.* (2016) Characterization of a novel canine T-cell line established from a spontaneously occurring aggressive T-cell lymphoma with large granular cell morphology. Immunobiology. 221 (1): 12-22.
22. Constantinoiu, C.C. *et al.* (2015) Mucosal tolerance of the hookworm *Ancylostoma caninum* in the gut of naturally infected wild dogs. Parasite Immunol. Jul 27 [Epub ahead of print].
23. 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.
24. Heinrich, F. *et al.* (2015) Passage-dependent morphological and phenotypical changes of a canine histiocytic sarcoma cell line (DH82 cells). Vet Immunol Immunopathol. 163 (1-2): 86-92.
25. Qeska, V. *et al.* (2014) Canine distemper virus infection leads to an inhibitory phenotype of monocyte-derived dendritic cells in vitro with reduced expression of co-stimulatory molecules and increased interleukin-10 transcription. PLoS One. 9 (4): e96121.
26. Bird, R.C. *et al.* (2019) Autologous hybrid cell fusion vaccine in a spontaneous intermediate model of breast carcinoma. J Vet Sci. 20 (5): e48.

| | |
|---|---|
| **Storage** | Store at +4°C or at -20°C if preferred.<br><br>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** | 12 months from date of despatch |
| **Health And Safety Information** | Material Safety Datasheet documentation #10336 available at:<br>10336: https://www.bio-rad-antibodies.com/uploads/MSDS/10336.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®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


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

'M365713:200529'

**Printed on 22 Mar 2021**