Datasheet: MCA1078GA

BATCH NUMBER 1708

Description:	MOUSE ANTI HORSE CD4
Specificity:	CD4
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	CVS4
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	▪			1/25 - 1/200
Immunohistology - Frozen	▪			
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 working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Horse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN_3)
Carrier Free	Yes

Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Equine thymocytes.
External Database Links	**UniProt:** F6Y6X8 Related reagents
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the X63-Ag 8.653 mouse myeloma cell line.
Specificity	**Mouse anti Horse CD4 antibody, clone CVS4** recognizes Equine CD4, a ~58 kDa cell surface glycoprotein that is primarily expressed on a subpopulation of T lymphocytes. As in humans, equine CD4 expression is mutually exclusive with CD8 expression on mature T-cells A study undertaken using Mouse anti Horse CD4, clone CVS4 to identify CD4 on several wild african equid species indicates that the CVS4 clone recognizes Somali wild ass (*Equus asinus*) but not Grévy's Zebra (*E. grevyi*) or Hartmann's Mountain Zebra (*E. zebra*). In addition to the CVS4 clone, other CVS clones recognising equine cell surface and MHC antigen are available from Bio-Rad.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. Lunn, D.P. *et al.* (1991) Three monoclonal antibodies identifying antigens on all equine T lymphocytes, and two mutually exclusive T-lymphocyte subsets. Immunology. 74 (2): 251-7. 2. Kydd, J. *et al.* (1994) Report of the First International Workshop on Equine Leucocyte Antigens, Cambridge, UK, July 1991. Vet Immunol Immunopathol. 42 (1): 3-60. 3. Deeg,C.A. *et al.* (2004) The uveitogenic potential of retinal S-antigen in horses. Invest Ophthalmol Vis Sci. 45: 2286-92 4. Pearson, W. *et al.* (2007) Low-dose ginseng (Panax quinquefolium) modulates the course and magnitude of the antibody response to vaccination against equid herpesvirus I in horses. Can J Vet Res. 71: 213-7. 5. Brault, S.A. *et al.* (2010) The immune response of foals to natural infection with equid herpesvirus-2 and its association with febrile illness. Vet Immunol Immunopathol. 137: 136-41. 6. Goodman, L.B. *et al.* (2007) A point mutation in a herpesvirus polymerase determines neuropathogenicity. PLoS Pathog. 3(11):e160. 7. Hamza, E.*et al.* (2012) CD4+CD25+ T cells expressing FoxP3 in Icelandic horses affected with insect bite hypersensitivity. Vet Immunol Immunopathol. 148 (1-2): 139-44. 8. Go, Y.Y. *et al.* (2010) Complex interactions between the major and minor envelope proteins of equine arteritis virus determine its tropism for equine CD3+ T lymphocytes and CD14+ monocytes. J Virol. 84: 4898-911 9. Lunn, D.P. *et al.* (1998) Report of the Second Equine Leucocyte Antigen Workshop,

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Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. 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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1078GA 10040

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
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Useful Reagents

MOUSE ANTI HORSE CD8:FITC (MCA2385F)
MOUSE ANTI HORSE CD8:RPE (MCA2385PE)

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