Datasheet: MCA1576GA

Description:	MOUSE ANTI RABBIT CD8
Specificity:	CD8
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	12.C7
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	▪			1/100 - 1/200
Immunohistology - Frozen			▪	
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.

Target Species	Rabbit
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 1.0 mg/ml
Specificity	**Mouse anti Rabbit CD8 antibody, clone 12.C7** recognizes the rabbit CD8 cell surface antigen, expressed by a subset of T lymphocytes with cytotoxic/suppressor activity.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul

References

1. De Smet, W. *et al.* (1983) Rabbit leukocyte surface antigens defined by monoclonal antibodies. Eur J Immunol. 13: 919-28.
2. Wilkinson, J.M. *et al.* (1992) A cytotoxic rabbit T-cell line infected with a gamma-herpes virus which expresses CD8 and class II antigens. Immunology. 77: 106-8.
3. Schock, A. and Reid, H.W. (1996) Characterisation of the lymphoproliferation in rabbits experimentally affected with malignant catarrhal fever. Vet Microbiol. 53: 111-9.
4. Dewals, B. *et al.* (2008) Malignant catarrhal fever induced by alcelaphine herpesvirus 1 is associated with proliferation of CD8+ T cells supporting a latent infection. PLos ONE 3: e1627.
5. Hanson, N.B. & Lanning, D.K. (2008) Microbial induction of B and T cell areas in rabbit appendix. Dev Comp Immunol. 32 (8): 980-91.
6. Anderson, I.E. *et al.* (2008) Production and utilization of interleukin-15 in malignant catarrhal fever. J Comp Pathol. 138 (2-3): 131-44.
7. Pakandl, M. *et al.* (2008) Dependence of the immune response to coccidiosis on the age of rabbit suckling. Parasitol Res. 103 (6): 1265-71.
8. Waclavicek, M. *et al.* (2009) Analysis of the early response to TSST-1 reveals Vbeta-unrestricted extravasation, compartmentalization of the response, and unresponsiveness but not anergy to TSST-1. J Leukoc Biol. 85 (1): 44-54.
9. Stich N *et al.* (2010) Staphylococcal superantigen (TSST-1) mutant analysis reveals that t cell activation is required for biological effects in the rabbit including the cytokine storm. Toxins (Basel). 2 (9): 2272-88.
10. Dewals, B. *et al.* (2011) *Ex vivo* bioluminescence detection of alcelaphine herpesvirus 1 infection during malignant catarrhal fever. J Virol. 85 (14): 6941-54.
11. Zhao, L. *et al.* (2011) Evaluation of immunocompatibility of tissue-engineered periosteum. Biomed Mater.6:015005.
12. Dewals, B.G. & Vanderplasschen, A. (2011) Malignant catarrhal fever induced by Alcelaphine herpesvirus 1 is characterized by an expansion of activated CD3+CD8+CD4- T cells expressing a cytotoxic phenotype in both lymphoid and non-lymphoid tissues. Vet Res. 42 (1): 95.
13. Marques, R.M. *et al.* (2012) Early inflammatory response of young rabbits attending natural resistance to calicivirus (RHDV) infection. Vet Immunol Immunopathol. 150: 181-8.
14. Srivastava, R. *et al.* (2015) A Herpes Simplex Virus Type 1 Human Asymptomatic CD8+ T-Cell Epitopes-Based Vaccine Protects Against Ocular Herpes in a "Humanized" HLA Transgenic Rabbit Model. Invest Ophthalmol Vis Sci. 56 (6): 4013-28.
15. Myster, F. *et al.* (2015) Viral semaphorin inhibits dendritic cell phagocytosis and migration but is not essential for gammaherpesvirus-induced lymphoproliferation in malignant catarrhal fever. J Virol. 89 (7): 3630-47.
16. Khan AA *et al.* (2015) Therapeutic immunization with a mixture of herpes simplex virus 1 glycoprotein D-derived “asymptomatic” human CD8+ T-cell epitopes decreases spontaneous ocular shedding in latently infected HLA transgenic rabbits: association with

low frequency of local PD-1+ TIM-3+ CD8+ exhausted T cells. J Virol. 89 (13): 6619-32.
17. Srivastava, R. *et al.* (2016) The Herpes Simplex Virus Latency-Associated Transcript Gene Is Associated with a Broader Repertoire of Virus-Specific Exhausted CD8+ T Cells Retained within the Trigeminal Ganglia of Latently Infected HLA Transgenic Rabbits. J Virol. 90 (8): 3913-28.
18. Khan, A.A. *et al.* (2018) Human Asymptomatic Epitope Peptide/CXCL10-Based Prime/Pull Vaccine Induces Herpes Simplex Virus-Specific Gamma Interferon-Positive $CD107^{+}$ $CD8^{+}$ T Cells That Infiltrate the Corneas and Trigeminal Ganglia of Humanized HLA Transgenic Rabbits and Protect against Ocular Herpes Challenge. J Virol. 92 (16): e00535-18.
19. Gates, K.V. & Griffiths, L.G. (2018) Chronic graft-specific cell-mediated immune response toward candidate xenogeneic biomaterial. Immunol Res. 66 (2): 288-98.
20. Prakash, S. *et al.* (2020) Unique molecular signatures of antiviral memory $CD8^{+}$ T cells associated with asymptomatic recurrent ocular herpes. Sci Rep. 10 (1): 13843.
21. Jeklova, E. *et al.* (2020) Characterization of humoral and cell-mediated immunity in rabbits orally infected with *Encephalitozoon cuniculi*.. Vet Res. 51 (1): 79.
22. Niedźwiedzka-Rystwej, P. *et al.* (2020) B and T lymphocytes in rabbits change according to the sex and throughout the year. Pol J Vet Sci. 23 (1): 37-42.
23. Myster, F. *et al.* (2020) Alcelaphine herpesvirus 1 genes A7 and A8 regulate viral spread and are essential for malignant catarrhal fever. PLoS Pathog. 16 (3): e1008405.
24. Niedźwiedzka-Rystwej, P. *et al.* (2022) Reactivity of selected markers of innate and adaptive immunity in rabbits experimentally infected with antigenic variants of RHD (Lagovirus europaeus/GI.1a). Vet Res Commun. 46 (1): 233-42.
25. Niedźwiedzka-Rystwej, P. & Deptuła, W. (2023) Crosstalk between Apoptosis and Cytotoxic Lymphocytes (CTLs) in the Course of Lagovirus Europaeus GI.1a Infection in Rabbits. J Vet Res. 67 (1): 41-47.
26. Tansiri, Y. *et al.* (2021) New potent epitopes from Leptospira borgpetersenii for the stimulation of humoral and cell-mediated immune responses: Experimental and theoretical studies Informatics in Medicine Unlocked. 25: 100649.

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
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/MCA1576GA
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
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 (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

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