Datasheet: MCA1576PE

Description:	MOUSE ANTI RABBIT CD8:RPE
Specificity:	CD8
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	12.C7
Isotype:	IgG1
Quantity:	100 TESTS

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	▪			Neat - 1/10

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 conjugated to R. Phycoerythrin (RPE) - lyophilized

Reconstitution

Reconstitute with 1 ml distilled water

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	578
RPE 561nm laser	546	578

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)
1% Bovine Serum Albumin
5% Sucrose

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.
27. Urselli, F. *et al.* (2025) Identification of antibodies induced by immunization with the syphilis vaccine candidate Tp0751. Vaccine. 50: 126804.
28. Chentoufi, A.A. *et al.* (2025) A tissue-targeted prime/pull/keep therapeutic herpes simplex virus vaccine protects against recurrent ocular herpes infection and disease in HLA-A*0201 transgenic rabbits. J Virol. 99 (5): e0013525.

Storage	This product is shipped at ambient temperature. Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA1576PE
Regulatory	For research purposes only

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
'M440128:250523'