

# Datasheet: MCA1576GA

**BATCH NUMBER 164077**

<b>Description:</b>	MOUSE ANTI RABBIT CD8
<b>Specificity:</b>	CD8
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	12.C7
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Rabbit
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on protein A from tissue culture supernatant.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% sodium azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Specificity</b>	<b>Mouse anti Rabbit CD8 antibody, clone 12.C7</b> recognizes the rabbit CD8 cell surface antigen, expressed by a subset of T lymphocytes with cytotoxic/suppressor activity.
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>1. De Smet, W. <i>et al.</i> (1983) Rabbit leukocyte surface antigens defined by monoclonal antibodies. <a href="#">Eur J Immunol. 13: 919-28.</a></li> <li>2. Wilkinson, J.M. <i>et al.</i> (1992) A cytotoxic rabbit T-cell line infected with a gamma-herpes virus which expresses CD8 and class II antigens. <a href="#">Immunology. 77: 106-8.</a></li> <li>3. Schock, A. and Reid, H.W. (1996) Characterisation of the lymphoproliferation in rabbits experimentally affected with malignant catarrhal fever. <a href="#">Vet Microbiol. 53: 111-9.</a></li> <li>4. Dewals, B. <i>et al.</i> (2008) Malignant catarrhal fever induced by alcelaphine herpesvirus 1 is associated with proliferation of CD8+ T cells supporting a latent infection. <a href="#">PLoS ONE 3: e1627.</a></li> <li>5. Hanson, N.B. &amp; Lanning, D.K. (2008) Microbial induction of B and T cell areas in rabbit appendix. <a href="#">Dev Comp Immunol. 32 (8): 980-91.</a></li> <li>6. Anderson, I.E. <i>et al.</i> (2008) Production and utilization of interleukin-15 in malignant catarrhal fever. <a href="#">J Comp Pathol. 138 (2-3): 131-44.</a></li> <li>7. Waclavicek, M. <i>et al.</i> (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. <a href="#">J Leukoc Biol. 85 (1): 44-54.</a></li> <li>8. Stich N <i>et al.</i> (2010) Staphylococcal superantigen (TSST-1) mutant analysis reveals that t cell activation is required for biological effects in the rabbit including the cytokine storm. <a href="#">Toxins (Basel). 2 (9): 2272-88.</a></li> <li>9. Zhao, L. <i>et al.</i> (2011) Evaluation of immunocompatibility of tissue-engineered periosteum. <a href="#">Biomed Mater.6:015005.</a></li> <li>10. Dewals, B. <i>et al.</i> (2011) <i>Ex vivo</i> bioluminescence detection of alcelaphine herpesvirus 1 infection during malignant catarrhal fever. <a href="#">J Virol. 85 (14): 6941-54.</a></li> <li>11. Marques, R.M. <i>et al.</i> (2012) Early inflammatory response of young rabbits attending natural resistance to calicivirus (RHDV) infection. <a href="#">Vet Immunol Immunopathol. 150: 181-8.</a></li> <li>12. Khan AA <i>et al.</i> (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. <a href="#">J Virol. 89 (13): 6619-32.</a></li> <li>13. Srivastava, R. <i>et al.</i> (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. <a href="#">Invest Ophthalmol Vis Sci. 56 (6): 4013-28.</a></li> <li>14. Myster, F. <i>et al.</i> (2015) Viral semaphorin inhibits dendritic cell phagocytosis and migration but is not essential for gammaherpesvirus-induced lymphoproliferation in malignant catarrhal fever. <a href="#">J Virol. 89 (7): 3630-47.</a></li> <li>15. Srivastava, R. <i>et al.</i> (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. <a href="#">J Virol. 90 (8): 3913-28.</a></li> </ol>

16. Khan, A.A. *et al.* (2018) Human Asymptomatic Epitope Peptide/CXCL10-Based Prime/Pull Vaccine Induces Herpes Simplex Virus-Specific Gamma Interferon-Positive CD107<sup>+</sup> CD8<sup>+</sup> 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.](#)
17. Gates, K.V. & Griffiths, L.G. (2018) Chronic graft-specific cell-mediated immune response toward candidate xenogeneic biomaterial. [Immunol Res. 66 \(2\): 288-98.](#)
18. 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.](#)
19. Prakash, S. *et al.* (2020) Unique molecular signatures of antiviral memory CD8<sup>+</sup> T cells associated with asymptomatic recurrent ocular herpes. [Sci Rep. 10 \(1\): 13843.](#)
20. Jeklova, E. *et al.* (2020) Characterization of humoral and cell-mediated immunity in rabbits orally infected with *Encephalitozoon cuniculi*. [Vet Res. 51 \(1\): 79.](#)
21. 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.](#)
22. Niedźwiedzka-Rystwej, P. *et al.* (2021) 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. Oct 29 \[Epub ahead of print\].](#)

<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1576GA">https://www.bio-rad-antibodies.com/SDS/MCA1576GA</a></p> <p>10040</p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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