

Datasheet: MCA799GA

BATCH NUMBER 164281

Description:	MOUSE ANTI RABBIT CD4
Specificity:	CD4
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	KEN-4
Isotype:	IgG2a
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	Rabbit
Species Cross Reactivity	<p>Reacts with: Brown Hare (<i>Lepus europaeus</i>)</p> <p>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.</p>
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
Immunogen	Rabbit thymocytes.
External Database Links	<p>UniProt: P46630 Related reagents</p> <p>Entrez Gene: 100009152 CD4 Related reagents</p>
Fusion Partners	Spleen cells from immunized mice were fused with cells of the mouse PA1 myeloma cell line.
Specificity	<p>Mouse anti Rabbit CD4 antibody, clone KEN-4 recognizes the rabbit CD4 cell surface antigen, also known as T-cell surface antigen T4/Leu-3. Rabbit CD4 is a 434 amino acid, with an additional N-terminal signal peptide ~50 kDa cell surface single pass, type I transmembrane glycoprotein expressed by T helper cells.</p> <p>Mouse anti Rabbit CD4 antibody, clone KEN-4 blocks the allogeneic mixed lymphocyte reaction response.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells or 100ul whole blood.
References	<ol style="list-style-type: none"> Kotani, M. <i>et al.</i> (1993) Generation and characterization of monoclonal antibodies against rabbit CD4, CD5 and CD11a antigens. J Immunol Methods. 157 (1-2): 241-52. 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. PLoS ONE 3: e1627. Chentoufi, A.A. <i>et al.</i> (2010) A novel HLA (HLA-A*0201) transgenic rabbit model for preclinical evaluation of human CD8+ T cell epitope-based vaccines against ocular herpes. J Immunol. 184: 2561-71. Perosa, F. and Dammacco, F. (1994) Anti-idiotypic monoclonal antibodies (mAb) to an anti-CD4 mAb induce CD4+ T cell depletion in rabbit. Int J Clin Lab Res. 24: 208-12. Khan, A.A. <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. J Virol. 89 (13): 6619-32. Rütgen, B.C. <i>et al.</i> (2014) Exploratory assessment of CD4+ T lymphocytes in brown hares (<i>Lepus europeus</i>) using a cross-reactive anti-rabbit CD4 antibody. Vet Immunol Immunopathol. 161 (1-2): 108-15.

7. Boutard, B. *et al.* (2015) The α 2,3-sialyltransferase encoded by myxoma virus is a virulence factor that contributes to immunosuppression. [PLoS One. 10 \(2\): e0118806.](#)
8. Pakandl, M. *et al.* (2008) Dependence of the immune response to coccidiosis on the age of rabbit suckling. [Parasitol Res. 103 \(6\): 1265-71.](#)
9. Renaux, S. *et al.* (2003) Dynamics and responsiveness of T-lymphocytes in secondary lymphoid organs of rabbits developing immunity to *Eimeria intestinalis*. [Vet Parasitol. 110 \(3-4\): 181-95.](#)
10. Yang, J. *et al.* (2009) Expression and localization of rabbit B-cell activating factor (BAFF) and its specific receptor BR3 in cells and tissues of the rabbit immune system. [Dev Comp Immunol. 33 \(5\): 697-708.](#)
11. Beghelli, D *et al.* (2016) Effects of Oregano (*Origanum vulgare* L.) and Rosemary (*Rosmarinus officinalis* L.) Aqueous Extracts On *in vitro* Rabbit Immune Responses [MOJ Immunology. 4 \(4\) \[Epub ahead of print\].](#)
12. Sorel, O. *et al.* (2017) Macavirus latency-associated protein evades immune detection through regulation of protein synthesis in cis depending upon its glycin/glutamate-rich domain. [PLoS Pathog. 13 \(10\): e1006691.](#)
13. 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.](#)
14. Penadés, M. *et al.* (2018) Long-term implications of feed energy source in different genetic types of reproductive rabbit females. II. Immunologic status. [Animal. 12 \(9\): 1877-85.](#)
15. Jeklova, E. *et al.* (2020) Characterization of humoral and cell-mediated immunity in rabbits orally infected with *Encephalitozoon cuniculi*. [Vet Res. 51 \(1\): 79.](#)
16. 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.](#)
17. Muñoz-Silvestre, A. *et al.* (2020) Pathogenesis of Intradermal Staphylococcal Infections: Rabbit Experimental Approach to Natural *Staphylococcus aureus* Skin Infections. [Am J Pathol. 190 \(6\): 1188-1210.](#)
18. Largo, R.D. *et al.* (2020) VEGF Over-Expression by Engineered BMSC Accelerates Functional Perfusion, Improving Tissue Density and In-Growth in Clinical-Size Osteogenic Grafts. [Front Bioeng Biotechnol. 8: 755.](#)
19. 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 \[Epub ahead of print\].](#)
20. Parameswaran, N. *et al.* (2014) The A2 gene of alcelaphine herpesvirus-1 is a transcriptional regulator affecting cytotoxicity in virus-infected T cells but is not required for malignant catarrhal fever induction in rabbits. [Virus Res. 188: 68-80.](#)

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/MCA799GA>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Human Anti Mouse IgG2a (HCA037...)	HRP
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
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

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](https://www.bio-rad-antibodies.com/datasheets)
'M382563:210513'

Printed on 25 Mar 2023

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)