Datasheet: MCA812PE

Description:	MOUSE ANTI RABBIT IgM (B CELL MARKER):RPE
Specificity:	IgM (B-CELL MARKER)
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	NRBM
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

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 1.0 ml distilled water

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
RPE 488nm laser	496	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

External Database Links	**UniProt:** P04221 Related reagents P03988 Related reagents
Fusion Partners	Spleen cells from immunized mice were fused with cells of the Mouse P3X63Ag8.653 myeloma cell line.
Specificity	**Mouse anti Rabbit IgM (B Cell Marker) antibody, clone NRBM** recognizes rabbit IgM. Mammalian IgM is produced and secreted by plasma cells located in bone marrow, lymph nodes and spleen. IgM is present in both a secreted polymeric form and as cell surface monomeric form on B cells. Mouse anti Rabbit IgM antibody, clone NRBM labels IgM^{+ve} B cells (Dewals *et al.* 2011, Waclavicek *et al.* 2009) and as such can be considered a reliable marker of lagomorph B cells for flow cytometry.
Flow Cytometry	Use 10ul of the suggested working dilution to label $1x10^6$ cells in 100ul.
References	1. Idogawa, H. *et al.* (1997) Progression of articular destruction and the production of tumour necrosis factor-alpha in antigen-induced arthritis in rabbits. Scand J Immunol. 46 (6): 572-80. 2. 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. 3. Gillet, L. *et al.* (2009) Anchoring tick salivary anti-complement proteins IRAC I and IRAC II to membrane increases their immunogenicity. Vet Res. 40: 51. 4. 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. 5. 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. 6. Anderson, I.E. *et al.* (2008) Production and utilization of interleukin-15 in malignant catarrhal fever. J Comp Pathol. 138: 131-44. 7. Dewals, B.G. and 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: 95. 8. Dewals, B. *et al.* (2011) Ex vivo bioluminescence detection of alcelaphine herpesvirus 1 infection during malignant catarrhal fever. J Virol. 85: 6941-54. 9. Milanovic, V. *et al.* (2017) Histological and immunological changes in uterus during the different reproductive stages at Californian rabbit (*Oryctolagus cuniculus*). Kafkas Univ Vet Fak Derg, 23, 137-44. 10. Ondruska, L. *et al.* (2016) Decrease in C-reactive protein levels in rabbits after vaccination with a live attenuated myxoma virus vaccine. Veterinární Medicína. 61 (No. 10): 571-6.

11. 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.
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. Jeklova, E. *et al.* (2020) Characterization of humoral and cell-mediated immunity in rabbits orally infected with *Encephalitozoon cuniculi*.. Vet Res. 51 (1): 79.
14. 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.
15. 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): 1188-210.
16. 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.

Storage	Prior to reconstitution store at +4°C. After reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.
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/MCA812PE 20487
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

MOUSE ANTI RABBIT T LYMPHOCYTES:FITC (MCA800F)

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
'M419426:230616'

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