

## Datasheet: MCA812PE

**BATCH NUMBER INN1808**

<b>Description:</b>	MOUSE ANTI RABBIT IgM (B CELL MARKER):RPE
<b>Specificity:</b>	IgM (B-CELL MARKER)
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	NRBM
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Rabbit		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1.0 ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<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</b>	0.09% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	1% Bovine Serum Albumin 5% Sucrose		

**External Database  
Links**

**UniProt:**

[P04221](#)      [Related reagents](#)  
[P03988](#)      [Related reagents](#)

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**Fusion Partners**      Spleen cells from immunised mice were fused with cells of the Mouse P3X63Ag8.653 myeloma cell line.

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**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<sup>+</sup> 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.

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**Flow Cytometry**      Use 10ul of the suggested working dilution to label 1x10<sup>6</sup> cells in 100ul.

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**References**

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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.](#)
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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.](#)
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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.](#)
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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.* (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.](#)
15. 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.](#)
16. 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.](#)

<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20487 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA812PE">https://www.bio-rad-antibodies.com/SDS/MCA812PE</a> 20487
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Useful Reagents

[MOUSE ANTI RABBIT T LYMPHOCYTES:FITC \(MCA800F\)](#)

<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://www.bio-rad-antibodies.com/datasheets)  
'M375673:210104'

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