

Datasheet: MCA1212PE

BATCH NUMBER 168416

RAT IgG2a NEGATIVE CONTROL:RPE
RAT IgG2a NEGATIVE CONTROL
RPE
Negative/Isotype Control
lgG2a
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	-			*

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	Negative Control		
Product Form	Purified IgG conjugate	ed to R. Phycoerythrin	(RPE) - lyophilized
Reconstitution	Reconstitute with 1 m	l distilled water	
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared supernatant	by affinity chromatog	raphy on Protein G
Buffer Solution	Phosphate buffered sa	aline	
Preservative	0.09% sodium azide (NaN ₃)	
Stabilisers	1% bovine serum albu	umin	
	5% sucrose		
lmmunogen	Human lymphocytes.		
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RRID	AB_322676
Fusion Partners	Spleen cells from immunized DA rats were fused with cells of the rat Y3/Ag1.2.3. myeloma cell line.
Specificity	Rat IgG2a Negative Control antibody is suitable for the assessment of the level of non-specific binding of rat IgG2a monoclonal antibodies to mouse cells.
	Test results indicate Rat IgG2a Negative Control antibody is also suitable for use as a negative control with canine cells.
	N.B. This antibody recognizes a human cell surface marker, and therefore is not suitable as a negative control in human cells or cell lines.
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	1. Stapleton, T.W. <i>et al.</i> (2000) Investigation of the regenerative capacity of an acellular porcine medial meniscus for tissue engineering applications. <u>Tissue Eng Part A. 17:</u> 231-42.
	2. Guilloteau, L.A. <i>et al.</i> (2003) Nramp1 is not a major determinant in the control of
	 Brucella melitensis infection in mice. Infect Immun. 71: 621-8. 3. Sumagin, R. et al. (2008) Leukocyte-endothelial cell interactions are linked to vascular permeability via ICAM-1-mediated signaling. Am J Physiol Heart Circ Physiol. 295: H969-H977.
	 McConnell, M.J. <i>et al.</i> (2009) H2-K(b) and H2-D(b) regulate cerebellar long-term depression and limit motor learning. <u>Proc Natl Acad Sci U S A. 106: 6784-9.</u> Chiu, W.C. <i>et al.</i> (2011) Effects of dietary fish oil supplementation on cellular adhesion
	molecule expression and tissue myeloperoxidase activity in hypercholesterolemic mice with sepsis. <u>J Nutr Biochem. 20: 254-60.</u>
	 Schmidt, E.P. et al. (2012) The pulmonary endothelial glycocalyx regulates neutrophil adhesion and lung injury during experimental sepsis. Nat Med. 18 (8): 1217-23. Park, S.W. et al. (2012) A1 adenosine receptor allosteric enhancer PD-81723 protects
	against rand inchamic reportusion injury. Am J Dhysiol Bonel Dhysiol 202: E721.22

- against renal ischemia-reperfusion injury. Am J Physiol Renal Physiol. 303: F721-32.
- 8. Rabadi, M. et al. (2016) Peptidyl arginine deiminase-4-deficient mice are protected against kidney and liver injury after renal ischemia and reperfusion. Am J Physiol Renal Physiol. 311 (2): F437-49.
- 9. Rabadi, M.M. et al. (2019) Peptidyl arginine deiminase-4 exacerbates ischemic AKI by finding NEMO. Am J Physiol Renal Physiol. 316 (6): F1180-F1190.
- 10. Han, S.J. et al. (2020) Renal proximal tubular NEMO plays a critical role in ischemic acute kidney injury. JCI Insight. 5 (19): e139246.
- 11. Ono, Y. et al. (2018) CD11c+ M1-like macrophages (Møs) but not CD206+ M2-like Mø are involved in folliculogenesis in mice ovary. Sci Rep. 8 (1): 8171.
- 12. Han, S.J. et al. (2020) Selective nanoparticle-mediated targeting of renal tubular Toll-like receptor 9 attenuates ischemic acute kidney injury. Kidney Int. 98 (1): 76-87.
- 13. Rogato, F. et al. (2024) Leukemia cutis as a prominent clinical sign in a dog with acute myeloid leukemia. Vet Clin Pathol. 53 (4): 448-57.

Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE.				
	This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.				
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/MCA1212PE 20487				
Regulatory	For research purposes only				

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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 'M419324:230616'

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