

Datasheet: MCA1212

BATCH NUMBER 171194

Description:	RAT IgG2a NEGATIVE CONTROL
Specificity:	RAT IgG2a NEGATIVE CONTROL
Format:	Purified
Product Type:	Negative/Isotype Control
Isotype:	IgG2a
Quantity:	1 ml

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	■			*
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.

Target Species	Negative Control
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃) 1% bovine serum albumin 5% sucrose
Approx. Protein	IgG concentration 0.1 mg/ml

Concentrations

Immunogen Human lymphocytes.

RRID AB_322674

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 10⁶ cells in 100µl

References

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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.](#)
4. McConnell, M.J. *et al.* (2009) H2-K(b) and H2-D(b) regulate cerebellar long-term depression and limit motor learning. [Proc Natl Acad Sci U S A. 106: 6784-9.](#)
5. Chiu, W.C. *et al.* (2011) Effects of dietary fish oil supplementation on cellular adhesion molecule expression and tissue myeloperoxidase activity in hypercholesterolemic mice with sepsis. [J Nutr Biochem. 20: 254-60.](#)
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7. Park, S.W. *et al.* (2012) A1 adenosine receptor allosteric enhancer PD-81723 protects 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	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 #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA1212 10041
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
'M408532:221012'

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