

Datasheet: MCA929EL

BATCH NUMBER 163789

Description:	MOUSE IgG2a NEGATIVE CONTROL:Low Endotoxin
Specificity:	MOUSE IgG2a NEGATIVE CONTROL
Format:	Low Endotoxin
Product Type:	Negative/Isotype Control
Isotype:	IgG2a
Quantity:	0.5 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	▪			*
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures.

* It is recommended that the user dilutes the antibody to a concentration equivalent to their test reagent.

Target Species	Negative Control
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	None present
Carrier Free	Yes
Endotoxin Level	<0.01 EU/mg
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

Immunogen Activated rat T-helper cells.

RRID AB_567348

Fusion Partners Spleen cells from immunized BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.

Specificity **Mouse IgG2a negative control antibody, clone OX-34** is suitable for use as a negative control reagent for the measurement of non-specific binding of mouse monoclonal antibodies of isotype IgG2a to human tissue.

Clone MRC OX-34 recognises a rat cell surface marker, and therefore cannot be used as a negative control in this species.

This product is routinely tested in flow cytometry on rat splenocytes to confirm antibody activity and on human whole blood to test for suitability as a negative control.

Test results have shown that MCA929 is also suitable for use as a negative control with bovine, ovine, porcine, equine, canine, lapine and guinea-pig tissues.

This antibody may not be suitable for intracellular staining on some cell types.

Flow Cytometry Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.

References

1. Avigdor, A. *et al.* (2004) CD44 and hyaluronic acid cooperate with SDF-1 in the trafficking of human CD34+ stem/progenitor cells to bone marrow. [Blood. 103 \(8\): 2981-9.](#)
2. Kamble, N.M. *et al.* (2016) Interaction of a live attenuated Salmonella Gallinarum vaccine candidate with chicken bone marrow-derived dendritic cells. [Avian Pathol. 45 \(2\): 235-43.](#)
3. Wattedegedera, S.R. *et al.* (2017) Enhancing the toolbox to study IL-17A in cattle and sheep. [Vet Res. 48 \(1\): 20.](#)
4. Terpeluk, R.E. *et al.* (2024) Supplementation of Foals with a *Saccharomyces cerevisiae* Fermentation Product Alters the Early Response to Vaccination [Animals. 14 \(6\): 960.](#)
5. Maciag, S. *et al.* (2022) Effects of freezing storage on the stability of maternal cellular and humoral immune components in porcine colostrum. [Vet Immunol Immunopathol. 254: 110520.](#)
6. Forner, R. *et al.* (2021) Distribution difference of colostrum-derived B and T cells subsets in gilts and sows. [PLoS One. 16 \(5\): e0249366.](#)
7. 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 Store at -20°C only.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing

as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10162 available at: https://www.bio-rad-antibodies.com/SDS/MCA929EL 10162
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Regulatory	For research purposes only
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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
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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)
'M369191:200529'

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