

Datasheet: MCA1975

Description:	RAT ANTI MOUSE ART2.2
Specificity:	ART2.2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	Nika102
Isotype:	IgG2a
Quantity:	0.25 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			▪	
ELISA			▪	
Immunoprecipitation	▪			

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	Mouse
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)
Carrier Free	Yes
Approx. Protein	IgG concentration 1.0mg/ml

Concentrations

Immunogen pME.CD8LF-ART2.2

External Database Links

UniProt:

[O35975](#) [Related reagents](#)

Entrez Gene:

[11872](#) Art2b [Related reagents](#)

Synonyms Rt6.2, Rt6-2

RRID AB_2258718

Fusion Partners Spleen cells from immunized wistar rats were fused with cells of the Sp2/0 mouse myeloma cell line.

Specificity **Rat anti Mouse ART2.2 antibody, clone Nika102** recognizes the gene product of the mouse ADP-ribosyltransferase (ART) 2.2 gene, an ortholog of rat RT6. ART2.2 expressed exclusively by mature T-cells. Levels of ART2.2 expression vary between inbred strains of mice and is absent in NZW mice, in which the ART2.2 gene is deleted ([Koch-Nolte et al. 1999](#)).

Flow Cytometry Use 10µl of the suggested working dilution to label 10⁶ cells in 100µl

References

1. Kahl, S. *et al.* (2000) Metalloprotease-mediated shedding of enzymatically active mouse ecto-ADP-ribosyltransferase ART2.2 upon T cell activation. [J Immunol. 165:4463-9.](#)
 2. Adriouch, S. *et al.* (2001) Rapid induction of naive T cell apoptosis by ecto-nicotinamide adenine dinucleotide: requirement for mono(ADP-ribosyl)transferase 2 and a downstream effector. [J Immunol. 167:196-203](#)
 3. Ablamunits, V. *et al.* (2001) Changing patterns of cell surface mono (ADP-ribosyl) transferase antigen ART2.2 on resting versus cytopathically-activated T cells in NOD/Lt mice. [Diabetologia. 44 \(7\): 848-58.](#)
 4. Adriouch, S. *et al.* (2007) NAD⁺ released during inflammation participates in T cell homeostasis by inducing ART2-mediated death of naive T cells *in vivo*. [J Immunol. 179 \(1\): 186-94.](#)
 5. Heiss K *et al.* (2008) High sensitivity of intestinal CD8⁺ T cells to nucleotides indicates P2X7 as a regulator for intestinal T cell responses. [J Immunol. 181 \(6\): 3861-9.](#)
 6. Menzel, S. *et al.* (2015) Nucleotide-Induced Membrane-Proximal Proteolysis Controls the Substrate Specificity of T Cell Ecto-ADP-Ribosyltransferase ART2.2. [J Immunol. 195 \(5\): 2057-66.](#)
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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
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1975 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR73...)	RPE
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®550 , DyLight®650 , DyLight®800
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR69...)	FITC

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

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)
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