

Datasheet: MCA1975

BATCH NUMBER 154547

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 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 titrates the antibody 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
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 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Koch-Nolte, F. *et al.* (1999) A new monoclonal antibody detects a developmentally regulated mouse ecto-ADP-ribosyltransferase on T cells: subset distribution, inbred strain variation, and modulation upon T cell activation. [J Immunol. 163 \(11\): 6014-22.](#)
 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. 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.](#)
 4. 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.](#)
 5. 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.](#)
 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.](#)
 7. 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.](#)
-

Storage Store at +4°C or at -20°C if preferred.

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
------------------	---------------------------------

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1975 10040
--------------------------------------	---

Regulatory	For research purposes only
-------------------	----------------------------

Related Products

Recommended Secondary Antibodies

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

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
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M366039:200529'

Printed on 18 Jan 2024