

Datasheet: MCA2352GA

Description:	HAMSTER ANTI MOUSE CD121a
Specificity:	CD121a
Other names:	INTERLEUKIN 1 RECEPTOR TYPE 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	JAMA-147
Isotype:	IgG
Quantity:	0.1 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	▪			1/25 - 1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Functional Assays (1)			▪	

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.

(1) **Bio-Rad recommend the use of [MCA2352XZ](#) for functional assays.**

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	0.09% sodium azide (NaN ₃)

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Extracellular domain of murine IL-1R.

External Database Links

UniProt:

[P13504](#) [Related reagents](#)

Entrez Gene:

[16177](#) Il1r1 [Related reagents](#)

Synonyms Il-1r1, Il1ra

RRID AB_566480

Fusion Partners Spleen cells from immunised Armenian Hamster were fused with cells of the mouse P3X63.Ag 8-653 myeloma cell line.

Specificity

Hamster anti Mouse CD121a monoclonal antibody, clone JAMA-147 recognizes murine CD121a, the ~80 kDa type I interleukin-1 receptor. CD121a is a single pass type I membrane glycoprotein, weakly expressed on most cells and tissues including T lymphocytes, thymocytes, epithelial cells and dendritic cells, with stronger expression reported on fibroblasts.

The ligands for CD121a are the interleukin-1 (IL-1) family members; IL-1 alpha; IL-1 beta and IL-1 receptor antagonist. IL-1 is a mediator of inflammation and can elicit a variety of other biological responses through binding to CD121a.

Hamster anti mouse CD121 antibody, clone JAMA-147 has been reported to block IL-1 dependent cellular responses ([Rogers et al. 1992](#)).

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

References

1. Beckerman, K.P. *et al.* (1993) Release of nitric oxide during the T cell-independent pathway of macrophage activation. Its role in resistance to *Listeria monocytogenes*. [J Immunol. 150 \(3\): 888-95.](#)
2. Merrick, J.C. *et al.* (1997) Lymphocyte apoptosis during early phase of Listeria infection in mice. [Am J Pathol. 151 \(3\): 785-92.](#)
3. Scarim, A.L. *et al.* (1997) Evidence for the presence of type I IL-1 receptors on beta-cells of islets of Langerhans. [Biochim Biophys Acta. 1361 \(3\): 313-20.](#)
4. Kavanagh, D.P. *et al.* (2013) Mechanisms of adhesion and subsequent actions of a haematopoietic stem cell line, HPC-7, in the injured murine intestinal microcirculation *in vivo*. [PLoS One. 8 \(3\): e59150.](#)

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/MCA2352GA 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...) [DyLight®550](#), [DyLight®650](#), [DyLight®800](#),
[FITC](#)

Goat Anti Hamster IgG (STAR79...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL \(MCA2356\)](#)

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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